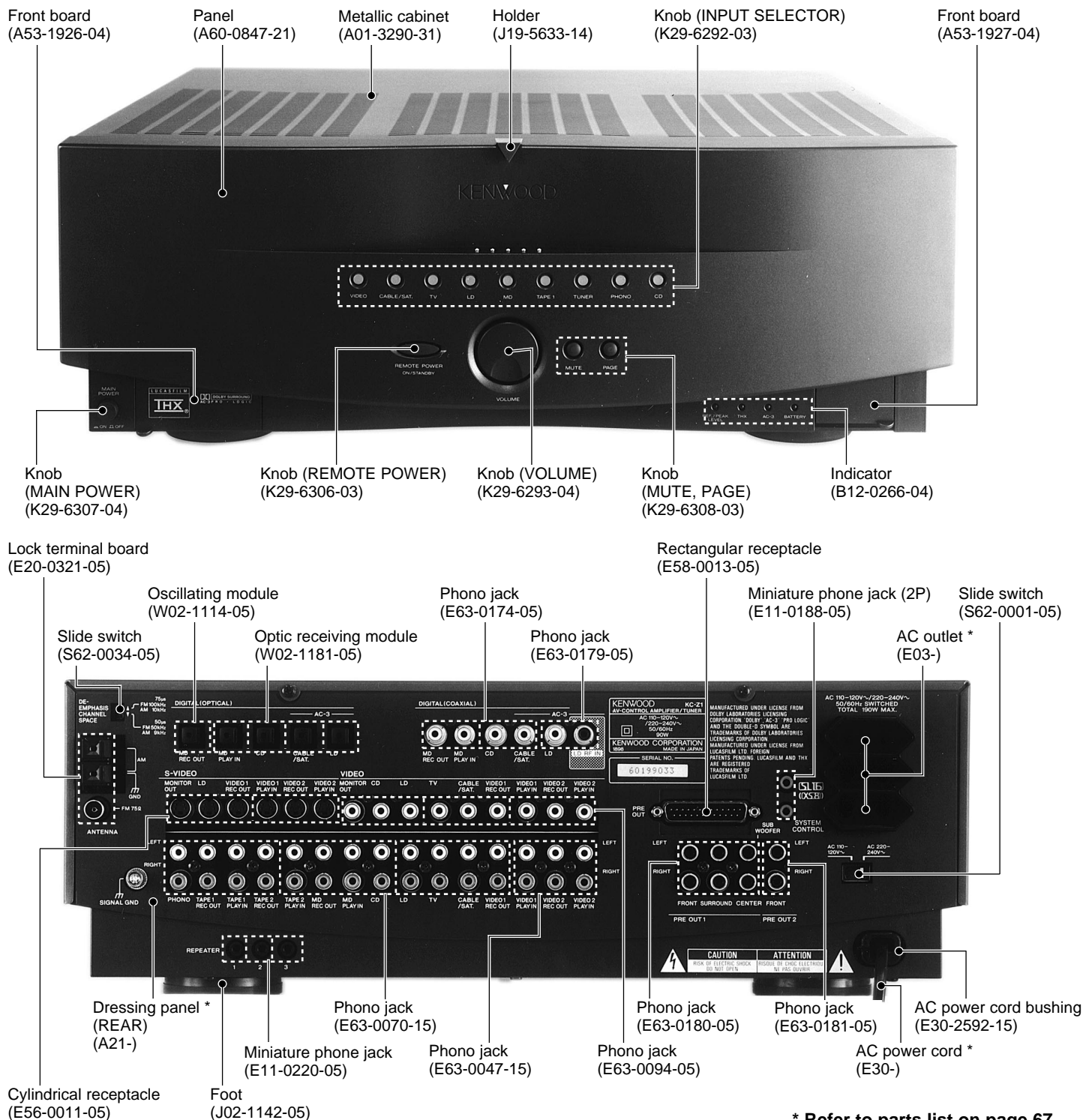


# KC-Z1/RC-Z1

## SERVICE MANUAL

© 1996-5/B51-5196-00 (K/K) 1506



\* Refer to parts list on page 67.

### [RC-Z1 Reset method]

⓪@ All clear : While pressing the volume up and down key both, then remove and set the battery or push the reset button on the rear cover by ball point pen.

⓪A RC-Z1 clear (contrast, sleep timer etc) : While pressing mute key, then remove and set the battery or push the reset button on the rear cover by ball point pen.

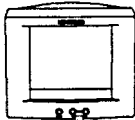
# CONTENTS / ACCESSORIES

## Contents

CONTENTS / ACCESSORIES .....	2	WIRING DIAGRAM .....	19
LCD CONTROLLER .....	3	PC BOARD .....	21
DISASSEMBLY FOR REPAIR .....	4	SCHEMATIC DIAGRAM .....	33
BLOCK DIAGRAM .....	5	EXPLODED VIEW .....	65
CIRCUIT DESCRIPTION .....	7	PARTS LIST .....	67
ADJUSTMENT .....	17	SPECIFICATIONS .....	85

## Accessories

TouchPanel/LCD controller (1)  
(X94-1080-10)



Battery cover (A09-0334-13)

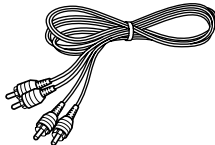
Batteries for TouchPanel  
(DR17-type) (2)  
(W03-4898-05)



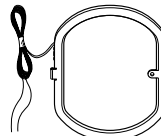
Infra-Red (IR) Repeater  
/Transmitting assy (1)  
(W02-2542-05)



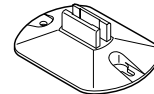
Audio cables (3)  
(E30-2600-05)



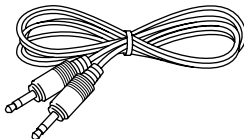
--- AM loop antenna assy (1) (T90-0826-05) ---



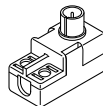
Loop antenna stand  
(J19-3645-05)



System control cable (1)  
(E30-2733-05)



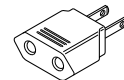
Antenna adaptor(1)  
(T90-0827-05)



FM indoor antenna (1)  
(T90-0176-05)



AC plug adaptor (1)  
(E03-0115-05) : M type



## Instruction manual

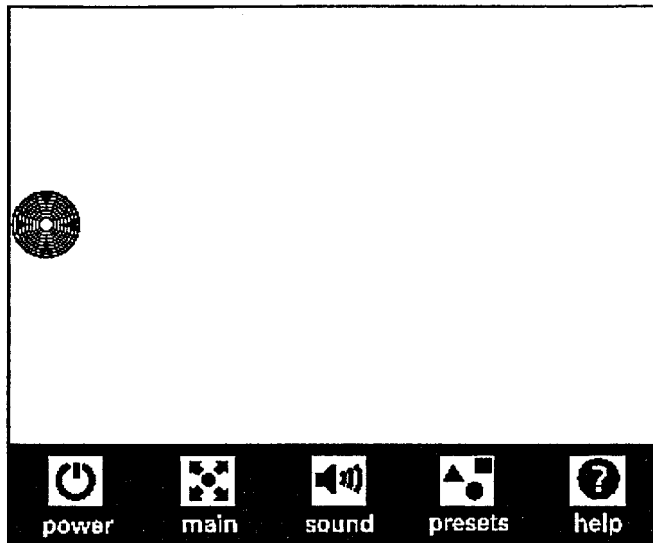
	Parts No.Ö@	Parts No.ÖA	Destination
ENGLISH	B60-2476-00	B60-2758-00	K, M
FRENCH	B60-2477-00	B60-2759-00	K
CHINESE	B60-2478-00	B60-2760-00	M
TAIWANESE	B60-2479-00	B60-2761-00	M
SPANISH	B60-2724-00	B60-2762-00	M

# LCD CONTROLLER



When you activate the Touch Panel for the first time, the Touch the Target screen appears. This screen helps calibrate the TouchPanel so it can detect the exact center of each button.

Touch the center of each target as it moves around the screen.



After you are finished calibrating the TouchPanel, the Stage 3 Title Screen display for a short time, followed by the MAIN MENU screen :

10:21 am



main menu

remote  
speaker vol.

accessories

alarm set

setup

record

- **HOME ROW**  
Provides quick access to the TouchPanels primary functions
- **POWER**  
Powers-down the Stage 3 Controller
- **MAIN**  
Lets you listen to and control all of the components in your home theater system
- **SOUND**  
Gives you total control over the way your system sounds
- **PRESETS**  
Enables you to save any changes you make with the SOUND buttons(and more)as system presets for instant recall
- **HELP**  
Gives you quick information on how the TouchPanel buttons work in the different screens

## SELECTION BUTTONS

Allow you to activate or adjust different functions

## SYSTEM COMPONENT ICONS

Lets you select and control your system components. Once you have set-up the TouchPanel, the MAIN MENU will show a separate icon for each component in your system

## RF COMMUNICATIONS ICON

This icon appears on every TouchPanel screen

- TouchPanel is docked
- ⦿ TouchPanel is receiving communication
- ◐ TouchPanel is not receiving communication

## SCREEN NAME

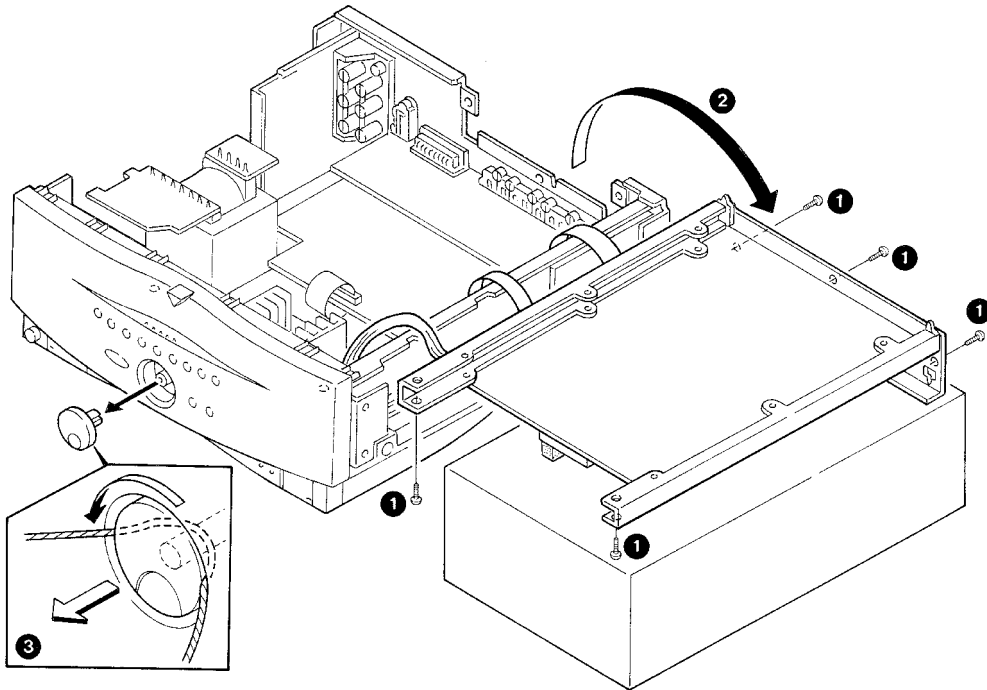
Corresponds to the button you touched to activate the current screen

## VOLUME CONTROL AND MUTE BUTTONS

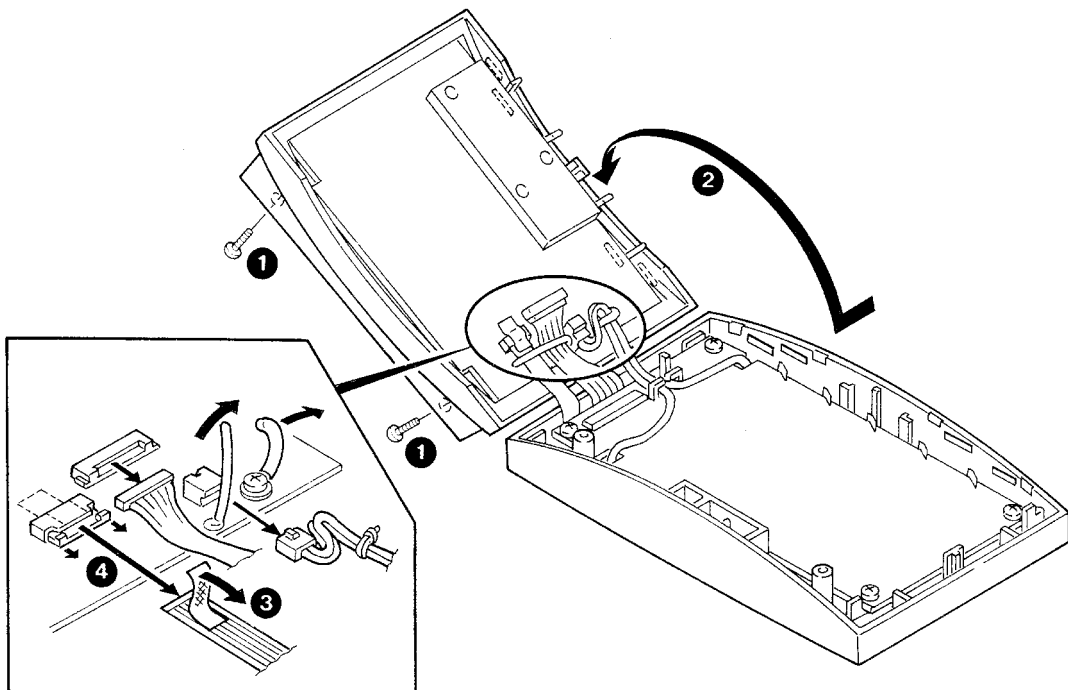
The TouchPanel's volume and mute buttons are always available, no matter which screen you are using

You are now ready to customize the TouchPanel to operate your entire home theater system.

# DISASSEMBLY FOR REPAIR



- (1) Remove 5 screws (❶), then remove the X08 PCB (❷).
- (2) Round a string on the volume shaft (❸), remove the volume knob.

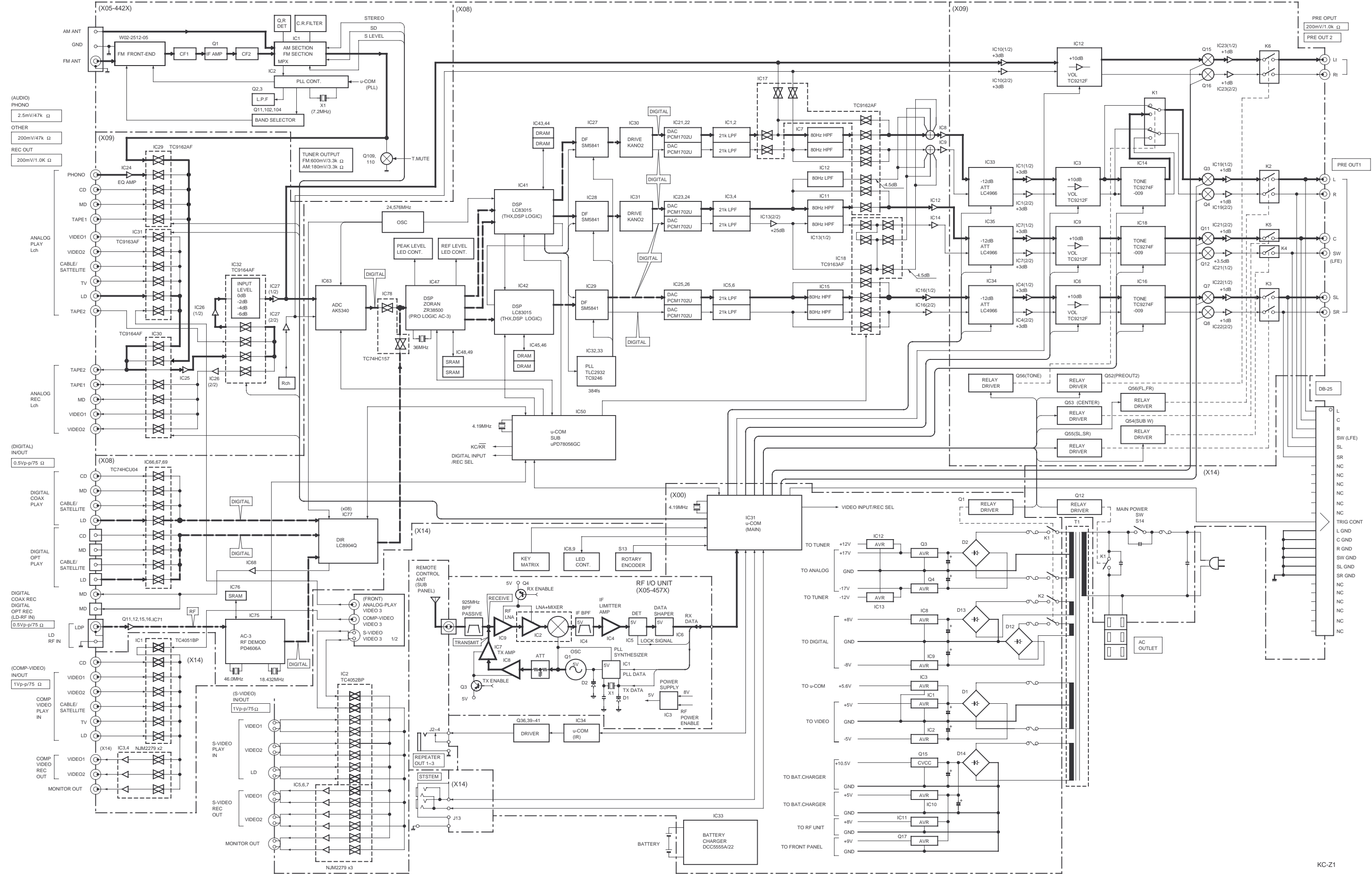


## RC-Z1

- (1) Remove 2 screws (❶), then remove the rear cover (❷).
- (2) Tearing off non-woven fabric (❸), remove the flexible flat cable (FFC) (❹).

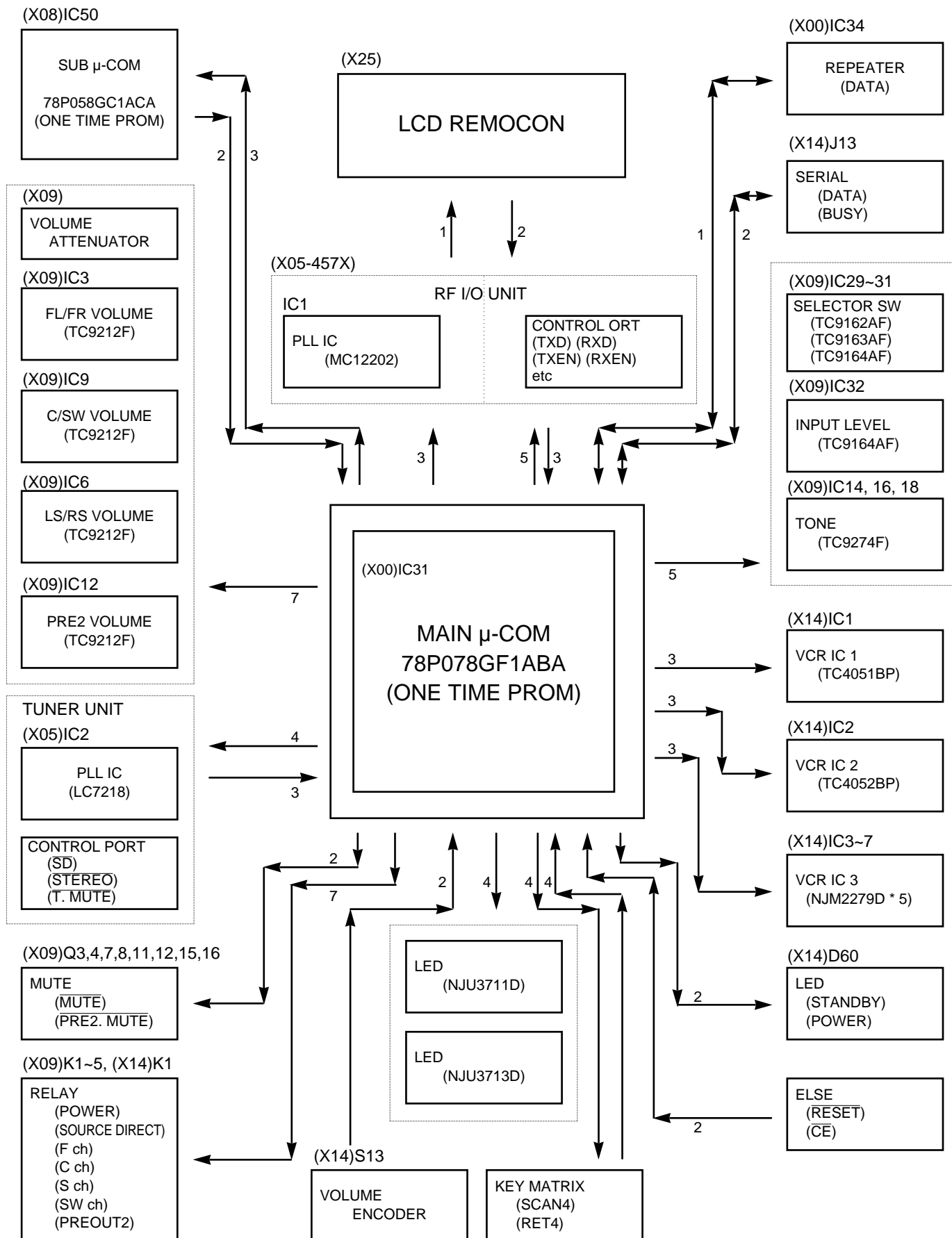


# BLOCK DIAGRAM



# CIRCUIT DESCRIPTION

## 1. Main microprocessor : 78P078GF1ABA (X00 : IC 31)



# CIRCUIT DESCRIPTION

## 1-2. Pin description

PinNo.	Pin Name	I/O	Description
1	V3.SW1	O	VCR IC3 (NJU2279D) switch1 port
2	V2.B	O	VCR IC2 (TC4052BP) B port
3	V2.A	O	VCR IC2 (TC4052BP) A port
4	V1.C	O	VCR IC1 (TC4051BP) C port
5	V1.B	O	VCR IC1 (TC4051BP) B port
6	V1.A	O	VCR IC1 (TC4051BP) A port
7	S.DATA	I/O	Serial communication data
8	S.BUSY	I/O	Serial communication busy
9	VSS		GND
10	X2		Main system clock (4.15MHz)
11	X1	I	Main system clock (4.15MHz)
12	VDD		Power supply (+5V)
13	XT2		Sub system clock (32.768KHz)
14	XT1	I	Sub system clock (32.768KHz)
15	RESET	I	System reset
16	CE	I	Chip enable
17	R.DATA	I/O	Repeater data
18		I	Not used
19	P.LOCK	I	RF unit lock signal
20	POWER.LED	O	Power LED
21	STANDBY.LED	O	Standby LED
22	RDS.CK	I	Not used
23	AVDD		A/D converter analog power supply (+5V)
24	AVREF0		A/D converter base voltage (GND)
25	RDS.SL	I	Not used
26	RDS.NL	I	Not used
27	P.SDT	O	RF unit PLL IC (LMX1511TMX) data
28	P.SCK	O	RF unit PLL IC (LMX1511TMX) clock
29	P.SLE	O	RF unit PLL IC (LMX1511TMX) load enable data
30	P.LOCK	I	RF unit lock signal H : ACTIVE
31	P.HOOK	I	LCD controller hook check H : NONE L : HOOK
32	P.OSCEN	O	RF unit oscillator enable H : ACTIVE
33	AVSS		VSS (GND)
34	P.RXEN	O	RF unit receive enable L : ACTIVE
35	P.TXEN	O	RF unit transmit enable L : ACTIVE
36	AVREF1	I	D/A converter base voltage VDD (+5V)
37	P.RXD	I	RF unit roam , controller receive data
38	P.TXD	O	RF unit controller , roam transmit data
39	P.RF	O	RF unit RF powe H : ACTIVE
40	VSS	–	GND
41	S.DT	I	Main & sub U-COM communication sub U-COM transmit data
42	M.DT	O	Main & sub U-COM communication main U-COM transmit data
43	M.CK	O	Main & sub U-COM communication main U-COM clock
44	M.RQ	O	Main & sub U-COM communication main U-COM request
45	S.RQ	I	Main & sub U-COM communication sub U-COM request
46	PRE2.MUTE	O	Preout 2 mute
47	MUTE	O	Mute (Preout 1 mute)

# CIRCUIT DESCRIPTION

PinNo.	Pin Name	I/O	Description
48	PRE2.RLY	O	Preout 2 relay
49	SW.RLY	O	Sub woofer (SW) ch. relay
50	S.RLY	O	Surround (SL,SR) ch. relay
51	C.RLY	O	Center (C) ch. relay
52	F.REY	O	Front (FL,FR) ch. relay
53	L.RLY	O	Source direct relay
54	VOL.ATT	O	Volume attenuator
55	VOL.ST4	O	Preout1 FL/RFch volume IC (TC9212F) strobe
56	VOL.ST3	O	Preout 1 LS/RS ch.volume IC (TC9212F) strobe
57	VOL.ST2	O	Preout 1 C/SW ch. volume IC (TC9212F) strobe
58	VOL.ST1	O	Preout 2 FL/FR ch. volume IC (TC9212F) strobe
59	VOL.CK	O	Preout 1,2 volume IC (TC9212F) clock
60	VOL.DT	O	Preout 1,2 volume IC (TC9212F) data
61	A.ST3	O	Tone IC (TC9274F) strobe
62	A.ST2	O	Input selector (TC9162AF/TC9163AF/TC9164AF) strobe
63	A.ST1	O	Tape2 input IC (TC9164AF) level strobe
64	A.CK	O	Tone (TC9274F) /input selector (TC9162AF/TC9163AF) /tape 2(TC9164AF) clock
65	A.DT	O	Tone (TC9274F) /input selector (TC9162AF/TC9163AF) /tape 2(TC9164AF) data
66	P.RLY	O	Power relay
67	LED.ST2	O	LED control IC (NJU3713D) strobe
68	LED.ST1	O	LED control IC (NJU3711D) strobe
69	LED.CK	O	LED control IC (NJU3711D/NJU3713D) clock
70	LED.DT	O	LED control IC (NJU3711D/NJU3713D) data
71	VSS		GND
72	VOL.CW	O	Volume rotary encoder CW (A port)
73	VOL.CCW	O	Volume rotary encoder CCW (B port)
74-77	KR0-KR3	I	Key return 0-3
78-81	KS0-3	O	Key scan 0-3
82-85		I	Not used
86	RDS.DT	I	Not used
87	RDS.ST	I	Not used
88	RDS.RT	O	Not used
89	RDS.AT	O	Not used
90	RDS.SS	O	Not used
91	T.MUTE	O	Tuner mute
92	T.CE	O	Tuner unit PLL IC (LC7218) chip enable
93	T.CK	O	Tuner unit PLL IC (LC7218) clock
94	T.DT	O	Tuner unit PLL IC (LC7218) data in
95	T.ST	I	Tuner stereo
96	T.SD	I	Tuner SD
97	T.DO	I	Tuner unit PLL IC (LC7218) data out
98	V2.INH	O	VCR IC 2 (TC4052) inhibit port
99	V3.SW3	O	VCR IC 3 (NJU2279D) switch 3 port (monitor mute) H : MUTE OFF L : MUTE ON
100	V3.SW2	O	VCR IC 3 (NJU2279D) switch 2 port

# CIRCUIT DESCRIPTION

## 1-3. Key matrix (12KEY + 4 SW)

	74 KR0	75 KR1	76 KR2	77 KR3
78 KS0	LD	TV	CABLE	VCR
79 KS1	CD	BEEP	MUTE	POWER
80 KS2	MD	TAPE 1	TUNER	PHONO
81 KS3	DSW0	DSW1	DSW2	DSW3

\*No. of : Port No. of  $\mu$ -COM

## 1-4. Destination list of tuner

Table 5-1 Destination List of Tuner

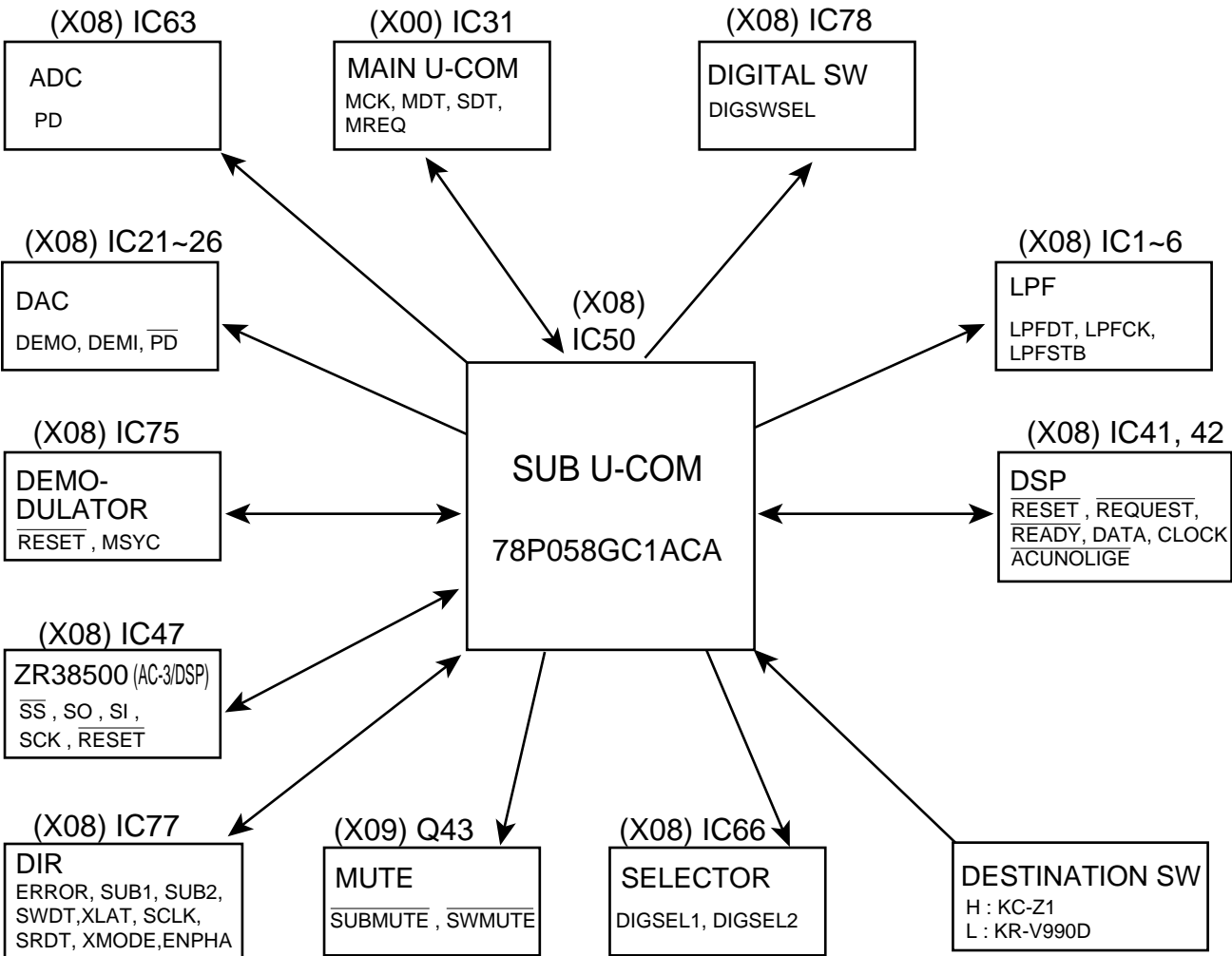
Destination	BAND	Receive frequency range	channel space	IF	PLL reference frequency	Destination DSW(X14-)		
						DSW 2	DSW 1	DSW 0
								(X00) D47
K1	FM	87.5MHz~108.0MHz	100kHz	10.7MHz	50kHz	0	0	0
	AM	530kHz~1700kHz	10kHz	450kHz	10kHz			
K2 (M)	FM	87.5MHz~108.0MHz	100kHz	10.7MHz	50kHz	0	0	1
	AM	530kHz~1610kHz	10kHz	450kHz	10kHz			

0 : Non Diode

1 : Diode

## 2. Sub microprocessor : 78P058GC1ACA (X08:IC50)

### 2-1. Microprocessor periphery block diagram



# CIRCUIT DESCRIPTION

## 2-2. Pin description

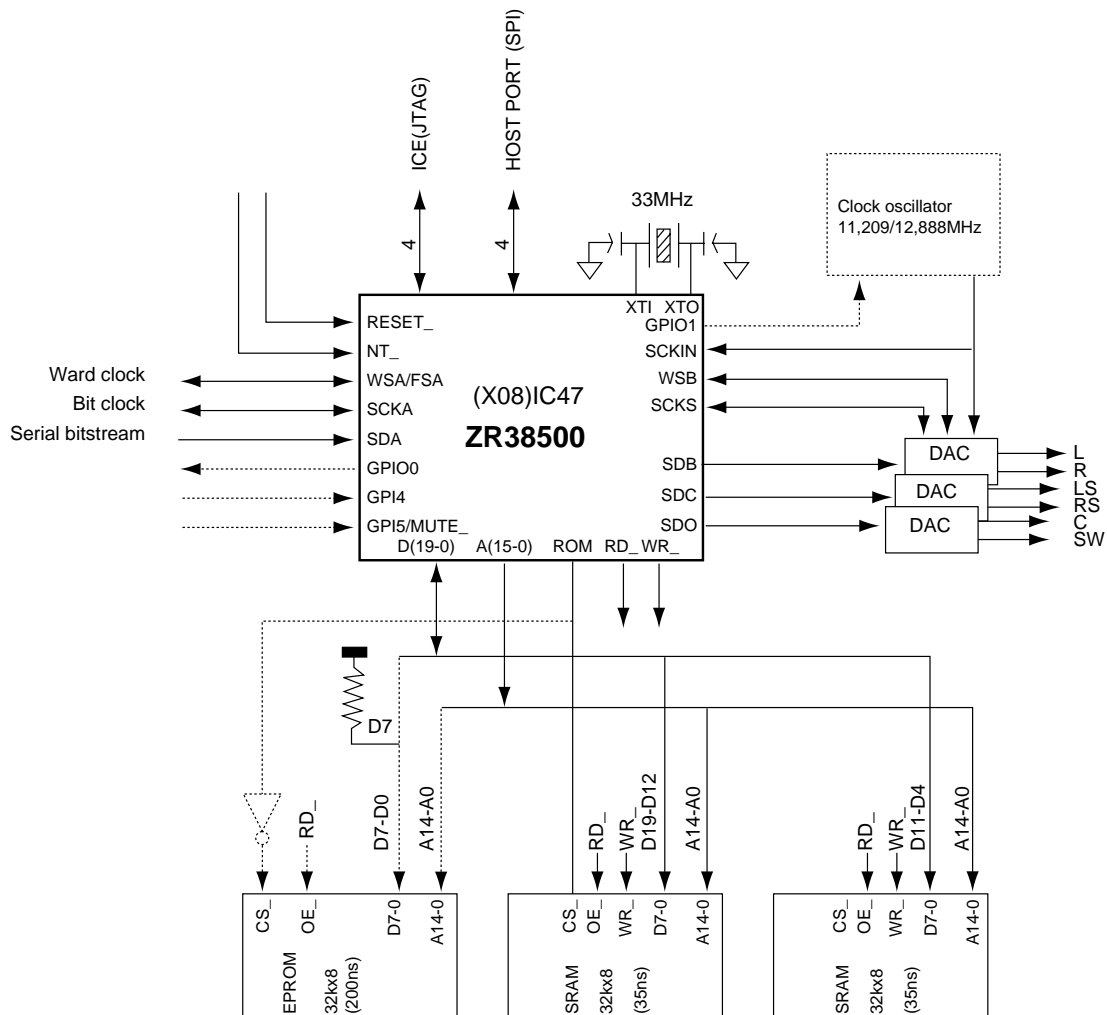
PinNo.	Pin Name	I/O	Description
1	DSP1REQ	O	DSP IC1 (LC83015JE):(X08:IC41) request
2	DSP1AK	I	DSP IC1 (LC83015JE):(X08:IC41) acknowledge
3	DSP2RST	O	DSP IC2 (LC83015JE):(X08:IC42) reset
4	AVSS		A/D reference voltage (GND)
5	DSP2RDY	O	DSP IC2 (LC83015JE):(X08:IC42) ready
6	DSP2REQ	O	DSP IC2 (LC83015JE):(X08:IC42) request
7	AVREF1		A/D reference voltage (VDD)
8		I	Not used
9	DSP1DT/DSP2DT	O	DSP IC1,2 (LC83015JE) data
10	DSP1CK/DSP2CK	O	DSP IC1,2 (LC83015JE) clock
11	MDT	I	Master data (communicated with main u-com)
12	SDT	O	Slave data (communicated with main u-com)
13	MCK	I	Master clock (communicated with main u-com)
14	MREQ	I	Master request (communicated with main u-com)
15	SREQ	O	Slave request (communicated with main u-com)
16	ZRSI	I	ZR38500 slave data
17	ZRSO	O	ZR38500 master data
18	ZRCK	O	ZR38500 master clock
19	ZRSS	O	ZR38500 strobe
20	ZRRST	O	ZR38500 reset
21	ADPD	O	ADC (AK 5340) power down
22,23	DADEMO0,1	O	DAC ( PCM1702U) sample rate select
24	DAPD	O	DAC ( PCM1702U) reset
25	DEMRST	O	Demodulater reset
26		I	Not used
27	DEMMSYC	I	Demodulator AC3 data sync check H:AC3 SYNCRO L:ERROR
28-31		I	Not used
32	PLLMUTE	I	PLL lock/unlock detect
33	VSS	I	GND
34	SUBMUTE	O	Sub mute
35	SWMUTE	O	SW.mute
36-40		I	Not used
41	DIRSRDT	I	DRI ( LC8904Q) channel statace output (32Bit)
42	DIRSCLK	O	DIR ( LC8904Q) clock
43	DIRXLAT	O	DIR ( LC8904Q) data latch
44	DIRSWDT	O	DIR ( LC8904Q) data
45,46	DIRSUB1,2	I	DIR ( LC8904Q) sample frequency output
47	DIRERROR	I	DIR ( LC8904Q) error check H:ERROR L:PCM
48	DIRXMODE	O	DIR ( LC8904Q) reset
49	DIRENPHA	I	DIR ( LC8904Q) emphasis
50		O	Not used
51	LPFSTB	O	SEL IC (TC9162N/TC9163N) data
52	LPFCK	O	SEL IC (TC9162N) clock
53	LPFDT	O	SEL IC (TC9162N)data
54		I	Not used
55	DIGSWSEL	O	TC74HC157 analog/digital selector H:DIGITAL L:ANALOG

# CIRCUIT DESCRIPTION

PinNo.	Pin Name	I/O	Description
56,57	DIGSEL1	O	TC74HC153 digital input selector
58	TYPESEL	I	Model distinction H:KC-Z1 L:KR-V990D
59		I	Not used
60	RESET	I	Sub u-com reset
61-67		I	Not used
68	VDD		Power supply (+5V)
69-70	X2,X1		4.19MHz ceramics
71	IC(VPP)		GND
72	XT2	O	Not used
73	XT1	I	Not used (GND)
74	AVDD		Not used
75	AVREF0		Not used
76-77		I	Not used
78	DSP2AK	I	DSP IC2 (TC83015JE):(X08:IC42) acknowledge
79	DSP1RST	O	DSP IC1 (TC83015JE):(X08:IC41) reset
80	DSP1RDY	O	DSP IC1 (TC83015JE):(X08:IC41) ready

## 3. DSP (AC-3) : ZR38500-36 (X08 : IC47)

### 3-1. System block diagram



# CIRCUIT DESCRIPTION

## 3-2. Pin function description

No.	Pin name	Type	No.	Pin name	Type	No.	Pin name	Type	No.	Pin name	Type
1	GND	P	33	GND	P	65	GND	P	97	GND	P
2	D6	I/O/T	34	NC		66	A11	O/T	98	SCKB	I/O
3	D7	I/O/T	35	NC		67	VCC	P	99	SCKA	I/O
4	D8	I/O/T	36	NC		68	A12	O/T	100	SCKIN	I/O
5	D9	I/O/T	37	VCC	P	69	A13	I/O	101	SDA	I
6	VCC	P	38	NC		70	A14	I/O	102	GN14	I
7	D10	I/O/T	39	NC		71	A15	I/O	103	VCC	P
8	NC		40	GND	P	72	NC		104	GP15/MUTE	I
9	GND	P	41	GND	P	73	VCC	P	105	SO	O
10	D11	I/O/T	42	TCK	I	74	NC		106	GND	P
11	VCC	P	43	VCC	P	75	GND	P	107	SDD	O
12	D12	I/O/T	44	TMS	I	76	GND	P	108	VCC	P
13	D13	I/O/T	45	GND	P	77	ROM	O/T	109	SDC	O
14	D14	I/O/T	46	GND	P	78	VCC	P	110	SDB	O
15	D15	I/O/T	47	TDI	I	79	NC		111	WSB/FSB	I/O
16	D16	I/O/T	48	VCC	P	80	INT_	I	112	SI	I
17	D17	I/O/T	49	SCK	I	81	GND	P	113	VCC	P
18	VCC	P	50	A0	O/T	82	XTO	O	114	VCC	P
19	D18	I/O	51	A1	O/T	83	XTI	I	115	SS_	I
20	GND	P	52	A2	O/T	84	GNDA	P	116	GND	P
21	GND	P	53	A3	O/T	85	VCCA	P	117	GND	P
22	D19	I/O/T	54	GND	P	86	VCC	P	118	GP100	I/O
23	VCC	P	55	A4	O/T	87	WR_	O	119	VCC	P
24	NC		56	VCC	P	88	GND	P	120	GPIO1	I/O
25	NC		57	A5	O/T	89	GND	P	121	D0	I/O/T
26	NC		58	A6	O/T	90	RD_	O	122	D1	I/O/T
27	NC		59	A7	O/T	91	VCC	P	123	D2	I/O/T
28	NC		60	A8	O/T	92	NC		124	D3	I/O/T
29	VCC	P	61	A9	O/T	93	RESET_	I	125	D4	I/O/T
30	NC		62	VCC	P	94	TDO	O/T	126	VCC	P
31	NC		63	A10	O/T	95	WSA/FSA	I/O	D5	D5	I/O/T
32	GND	P	64	GND	P	96	GND	P	128	GND	P

CAUTION 1) Connect the unused input pin (TYPE=I) to VCC if low when active. Connect it to GND of high when active.

CAUTION 2) Do not connect the unused output pin (TYPE=O), tristate pin (TYPE=T), and NC pin.

CAUTION 3) All data pins are internally pulled up to VCC by a minute current.



# CIRCUIT DESCRIPTION

## XTI, XTO

Crystal oscillator input/output pins. A parallel resonance oscillator for clock signal generation and two tuning capacitors are connected to these pins. The clock signal generated at the pins is sent to the internal PLL circuit. A clock signal can also be directly input to the XTI pin. The maximum frequency of an input clock signal is 33 MHz, and the minimum frequency is 7 MHz.

## A(15:0)

Address buses. These address buses are usually active.

## ROM

Memory selection signal (A18 pin of ROM/RAM and 38001DSP address bits). This signal is set active-high after reset and set low after the EROM boot program processing is completed.

## D(19:0)

Data buses. These data buses are a bidirectional data bus for external memory access.

## RD\_

Read strobe pin. This pin is asserted when external memory is read.

## WR\_

Write strobe pin. This pin is asserted when data is written in external memory.

## RESET\_

Reset input pin. Using this reset signal, the execution starts from the prescribed status and address.

During the power-on sequence, this input pin must be asserted by more than 200 clocks so as to initialize a processor (cold start). VCC and XTI (clock input or crystal oscillator) pins must satisfy the prescribed DC and AC characteristics until the rising edge of a reset signal is reached. To secure the guard time until the normal operation is initiated after that, a processor is put into the idle state for 4,096 clocks. For other resets, that is, all resets after the power-on sequence, the device is reset when a reset input signal become active between four clocks (minimum) and 127 clock (maximum)(warm start). A processor is released from the reset state at the rising edge of a reset signal and put into the normal operation mode after two clocks.

## INT\_

External interrupt input pin. This interrupt signal is enabled when it is asserted by more than two XTI cycles.

## WSA/FSA

Word selection or frame synchronization input/output pin of A-group serial port (for input). The direction and function of this signal are set by the SA, MA, and TA parameters (corresponding to the parameter in an SPMODE register for 38001DSP) of a CFG command described later.

## SCK A

Clock input/output pin for A-group serial port. The direction of this signal is set by the MA bit of a CFG command.

## SDA

Data input pin for serial port A

## SCKIN

Clock input/output pin for B-group serial port. The direction of this signal is set by the CB bit of a CFG command.

## WSB/FSB

Word selection or frame synchronization input/output pin for B-group serial port. The direction and function of this signal are set by the SB and MB bits of a CFG command.

## SCKB

Clock input/output pin for B-group serial port. The direction of this signal is set by the MB bit of a CFG command.

## SDB

Data output pin for serial port B

## SDC

Data output pin for serial port C

## SDD

Data output pin for serial port D

## GPIO0, GPIO1

General-purpose pins. These pins can be set to the input or output state using a SETIO command.

## GPI4

General-purpose input pin

## GPI5/MUTE\_

General-purpose input/mute pin. "1" is set to the MPE field of a CFG command when this pin is used as a mute pin.

## SS\_

Serial port interface: Slave select input (SPI).

## SCK

Serial port interface: Clock input (SPI).

## SO

Serial port interface: Serial data output (SPI).

## SI

Serial port interface: Serial data input (SPI).

## TCK

ICE interface clock (JTAG)

# CIRCUIT DESCRIPTION

TMS

ICE interface mode selection (JTAG)

TDO

ICE interface data output (JTAG)

TDI

ICE interface data input (JTAG)

## 3-3. Operation Description

### 3-3-1. Power-on Sequence and Reset

To evade the collision of signals, the device sets all programmable bidirectional pins to the input mode for activation. For example, the serial ports in both groups A and B are set to the slave mode during activation. The operation mode must be set by a host controller so that it is suitable for each system configuration until decoding is initiated. Therefore, a CFG command is available.

During the power-on sequence or reset, the boot loader of an internal ROM is first activated. The program in EPROM is booted when the EPROM effective for address 0X40000 is detected. The program executed after booting can be specified by the data in EPROM.

When EPROM is not connected (any of lower-level data pins D7 to D0 is set high), the device jumps to the command processing routine of internal ROM so as to wait for the command from the host. The succeeding data from the host is processed in the same way as when it is booted from EPROM if the command sent from the host is booted. The device jumps to the specified address when downloading is completed.

### 3-3-2. External Interface Setting

The operation mode of a serial port and memory port is set using a CFG command. Set the operation mode according to the characteristics of ADC, DAC, DIR, and SRAM to be connected. The parameters described below can be set. The default value after reset is underlined.

- Input port attribute: Master/slave
- Input port protocol: Continuous S (non-frame synchronization) / frame synchronization / word selection (12S compatible) / word selection (left-justify) / word selection (right-justify)
- Output port attribute: Master/slave
- Output port clock signal source: Internal/external
- Output port clock frequency-division coefficient:  $WSB = SCKIN(256) / SCKIN(384)$
- DAC type: 12S/left-justify/right-justify
- DAC word size: 16/18/20 bits
- External SRAM bit width: Narrow (8/9/10 bits)/wide (16/18/20 bits)
- External SRAM speed: 0 wait/l wait

### 3-3-3. Operation Mode

This device supports the operation modes below. For the command and parameter that select each operation mode, refer to the description of host commands in section 4.

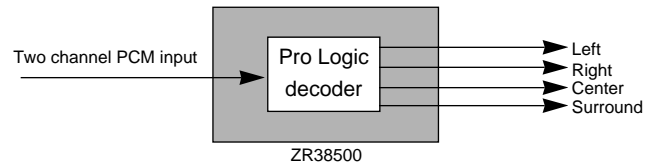
#### 1) Pink noise

- Channel: Left, center, right, left surrounding, right surrounding, and sub-woofer

#### 2) PCM

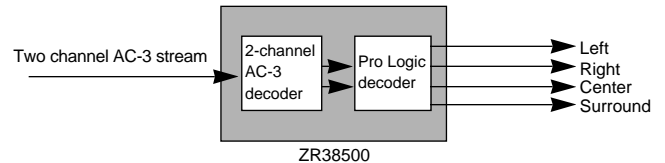
- Speaker configuration: Monaural and stereo

#### 3) Dolby pro-logic



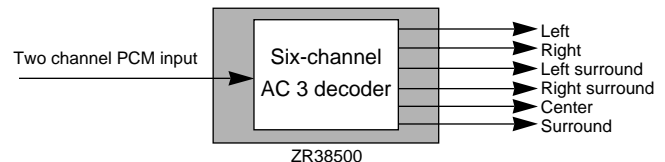
- Speaker configuration: Normal, wide, 3-stereo, and phantom
- Surrounding delay: Delayed in units of 1 ms between 0 and 31 ms.

#### 4) Dolby AC3 + pro-logic



- Speaker configuration: Normal, wide, 3-stereo, and phantom
- Surrounding delay: Delayed in units of 1 ms between 0 and 31 ms.
- Input data format: Normal and S/P DIF
- Measures against data error: Mute and block repeat

#### 5) Dolby AC3



- Down mixing: 3/2, 2/2, 3/1, 2/1, 3/0, 2/0, and 1/0
- Surrounding delay: Delayed in units of 1 ms between 0 and 31 ms.
- Center delay: Delayed in units of 1 ms between 0 and 5 ms.
- Dynamic range control
- Input data format: Normal and S/P DIF
- Measures against data error: Mute and block repeat

### 3-3-4. Decoder Control

A decoder can be controlled as described below using a host command.

- Mute
- Stop
- Play

# CIRCUIT DESCRIPTION

### 3-3-5. Decode Status

The information below can be accessed from the host during AC-3 decoding.

- Error status
- Audio frame information (Sampling rate, bit rate, mode, etc.)

### 3-3-6. Decoding Delay in AC-3 Mode

ZR38500 supports all the bit rates (32 kbps to 640 kbps) and sampling rates (32 kHz, 44.1 kHz, and 48 kHz) prescribed by AC-3 algorithm.

The decoding delay varies depending on how to enter the compressed data, the bit rate, and the sampling rate. However, the delay is fixed unless the parameter is changed.

The decoding delay can be given by the following expression.

AC-3 frame transfer time  $\times \frac{2}{3}$  (CRC check period) + period of one audio block (256 samples)

Example 1) For continuous bit stream

In this case, the clock at a serial data input port is the same as the bit rate and AC-3 data is input at a fixed rate. The decode delay at that time is fixed by the sampling rate as shown in Table 2.

Table 2 Decode Delay

Sampling rate	Decode delay
48 kHz	27 ms
44.1 kHz	29 ms
32 kHz	40 ms

Example 2) For burst transfer

When data is input using an S/P DIF interface, a burst transfer is used because the physical bit rate differs from the bit rate of information. In this case, the decode delay is determined by the physical interface bit rate, burst size, AC-3 bit rate, and sampling rate. The decode delay becomes approximately 11 ms when the sampling frequency is 48 kHz and when the bit rate is 384 kbps.

# ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINT	ALIGN FOR	FIG.
REMOTE CONTROL RECEIVE / TRANSMIT (X05-4570-10) : KC-Z1 REMOTE CONTROL RECEIVE / TRANSMIT (X25-5690-10) : RC-Z1							
1	X'TAL FREQUENCY	—	Connect the frequency counter to X'tal check round.	$f$ Receive 5ch(924.4MHz)	TC1	12.6MHz± 12.6Hz	(a)
2	LOCAL OSCILLATOR VT	—	Connect the DC voltmeter to VT check round.	$f$ Receive 5ch(924.4MHz)	TC2	2.5±0.2V	(b)
3	ANTENNA MATCHING	—	(KC-Z1) Connect the speana to the antenna terminal. (924.2MHz center)	(KC-Z1) $f$ Transmit 5ch(924.2MHz)	TC3	Maximum level of output spectrum	(c)
			(RC-Z1) Receive transmit frequency by speana input cable. (924.45MHz center)	(RC-Z1) $f$ Transmit 5ch(924.4MHz)			
4	PLL DETECTOR CENTER	(KC-Z1) Remove the ANT (X05-4570), then connect FM-SG to the antenna terminal f : 924.4475MHz dev. : ±2.5kHz AF : 1.2kHz Level : 20dBμ/50Ω	Connect the DC voltmeter to PLL detector output check round.	(KC-Z1) $f$ Receive 5ch(924.4MHz)	VR1	2.5±0.1V	(d)
		(RC-Z1) Output by FM-SG output cable. f : 924.1975MHz dev : ±2.5kHz AF : 1.2kHz Level : more than 70dBμ/50Ω		(RC-Z1) $f$ Receive 5ch(924.2MHz)			

$f$ Refer to Test mode on page 18.

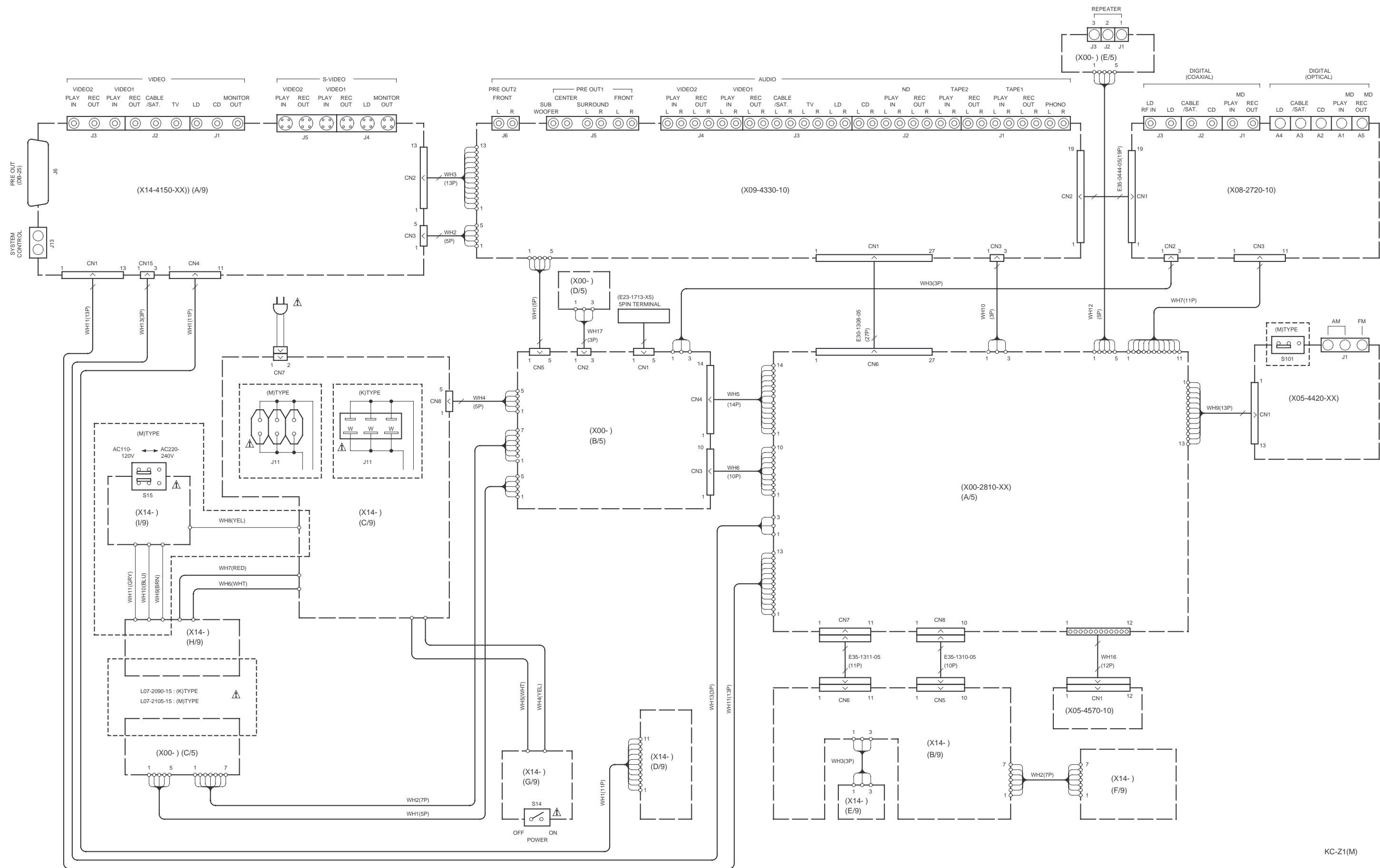
# ADJUSTMENT

## f Test mode

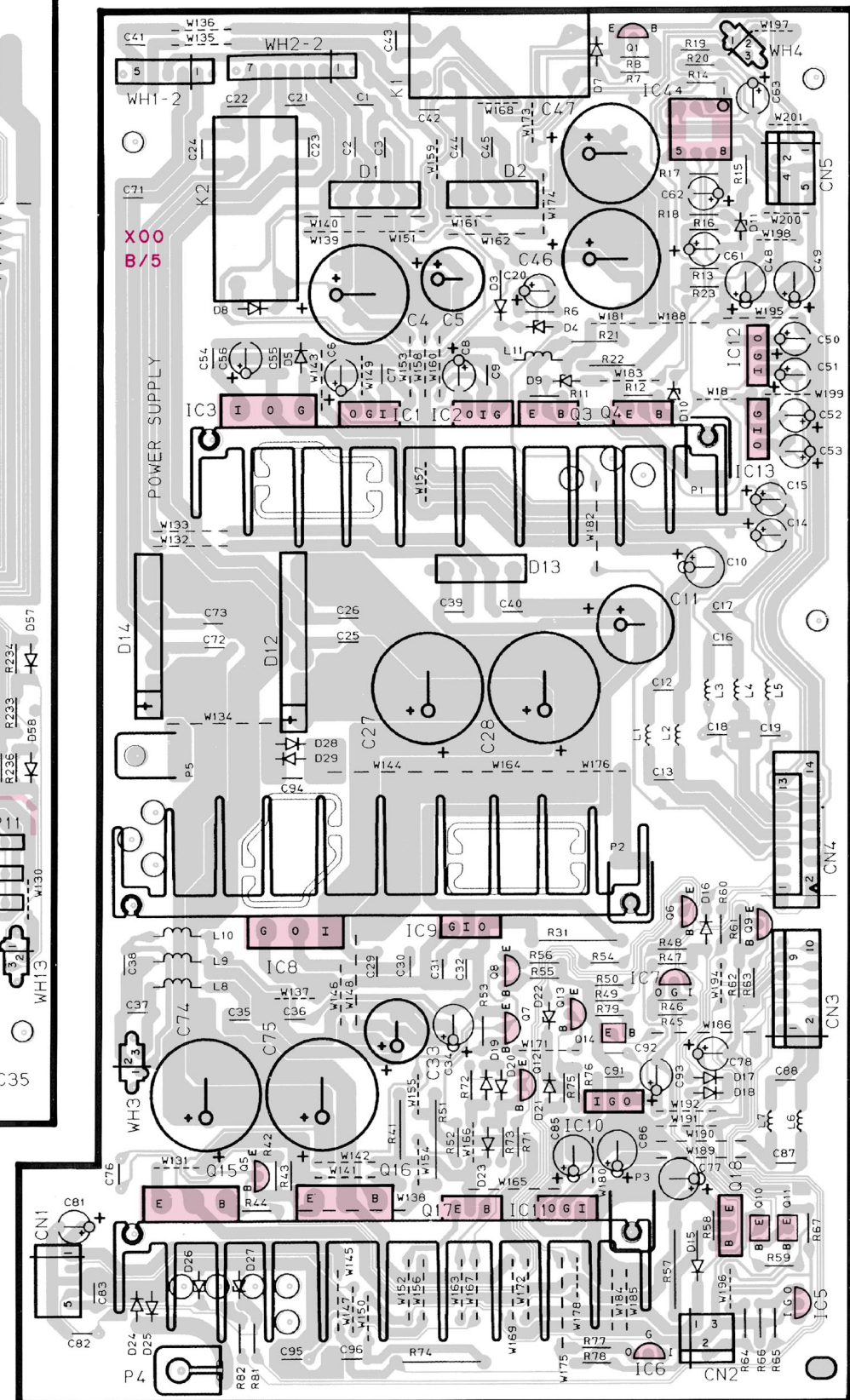
	KC-Z1	RC-Z1
SETTING METHOD	Turn on the MAIN POWER Key while holding down the CD Key.	Insert the Battery into the RC-Z1 while holding down the volume up and DOWN key both.
CANCEL METHOD	Turn off the MAIN POWER.	Remove the Battery.
RECEIVE MODE	Push CD Key, changeover cyclic receiving Ch. 1 ch → 5 ch → 10 ch 	Push the volume up or down Key, Then push the mute Key to decide. <div>tx</div> <div>tx 55</div> <div>rx</div> <div>1 ch</div> <div>5 ch</div> <div>10 ch</div> <div>dummy</div> <div>display</div> <div>ram</div> <div>             tx : TRANSMIT (Non Modulation)              tx55:transmit (Modulation)              rx : Receive           </div>
TRANSMIT MODE	Push MD key, Change over cyclic transmit Ch. 1 ch → 5 ch → 10 ch 	

LEDDISPLAY		
	THX	AC-3
	LED	LED
1 Ch	O	X
5 Ch	X	O
10 Ch	O	O
(O : ON X:OFF)		

# WIRING DIAGRAM



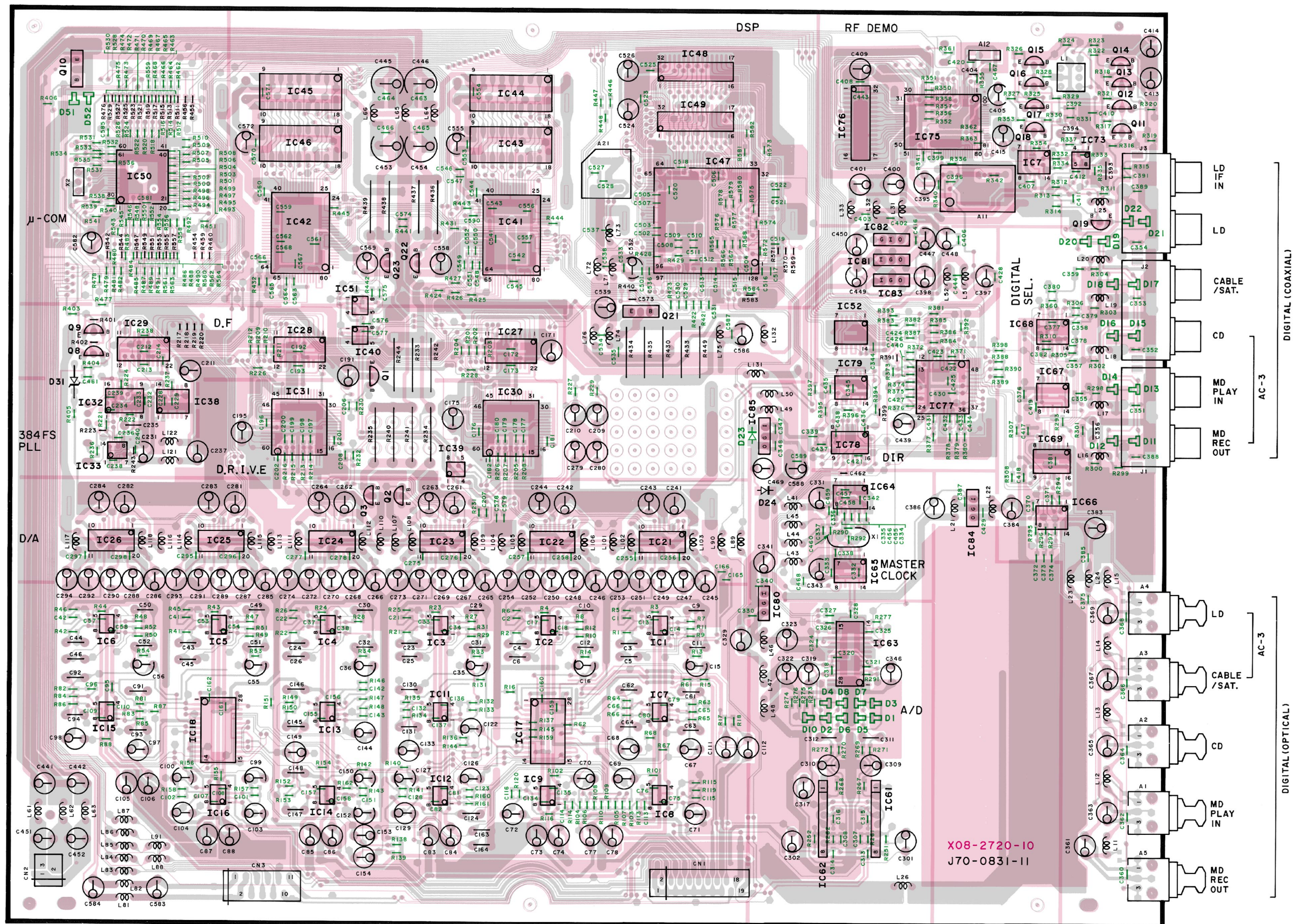




22



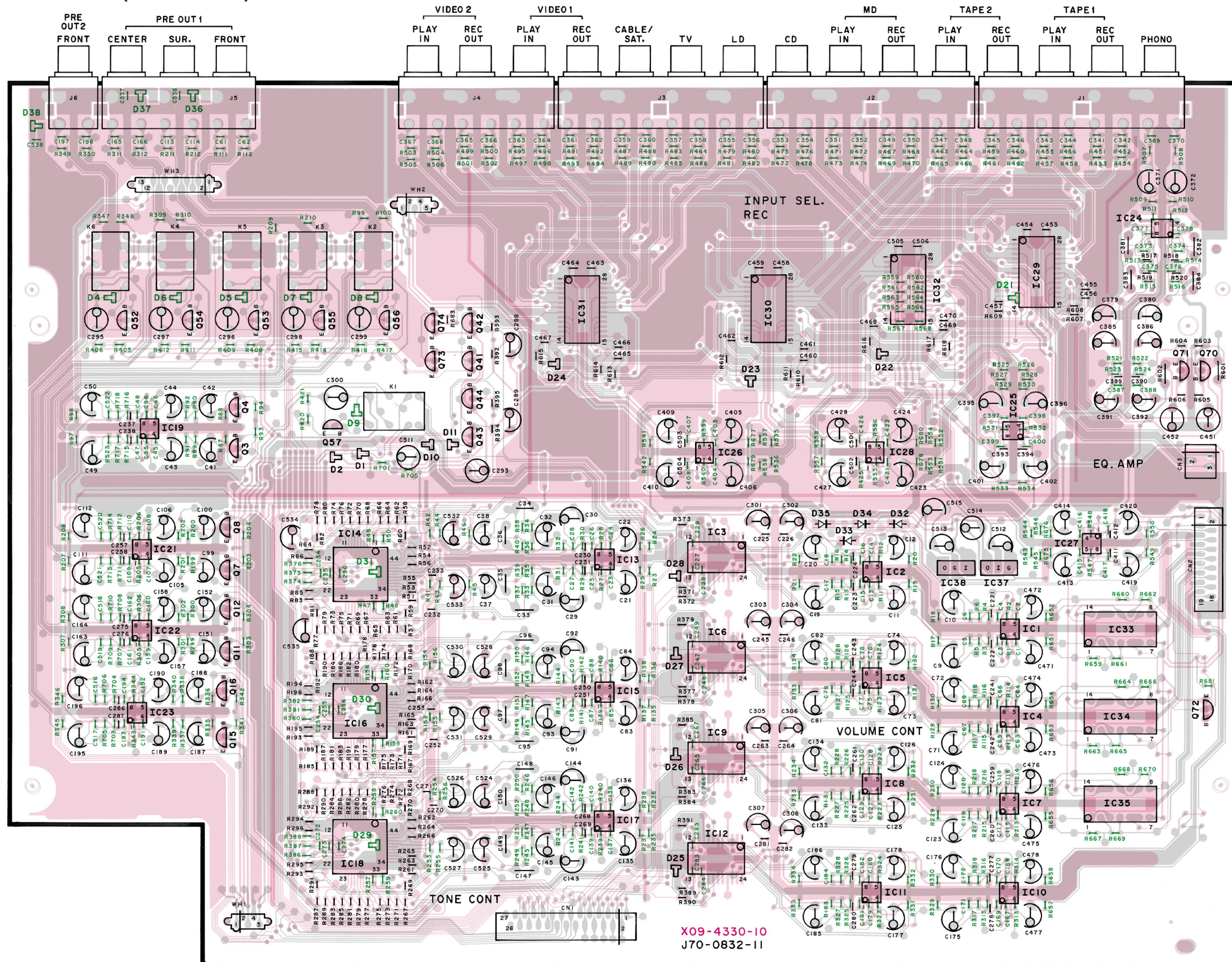
# PC BOARD (Component side view) SURROUND UNIT (X08-2720-10)





# PC BOARD (Component side view)

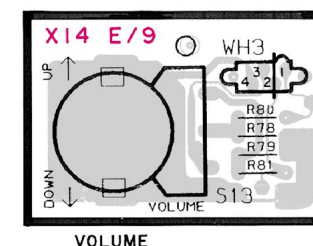
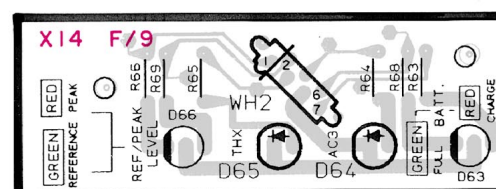
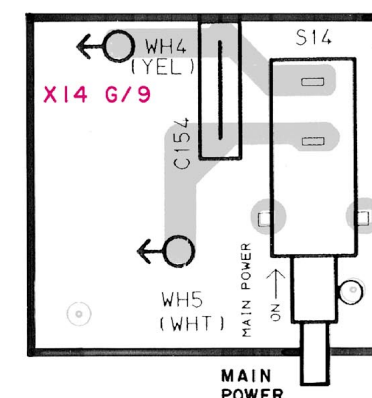
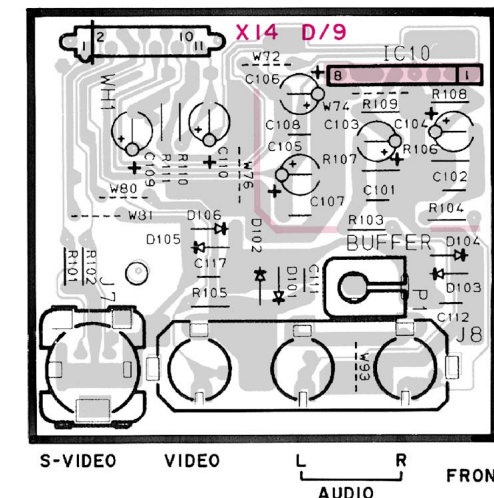
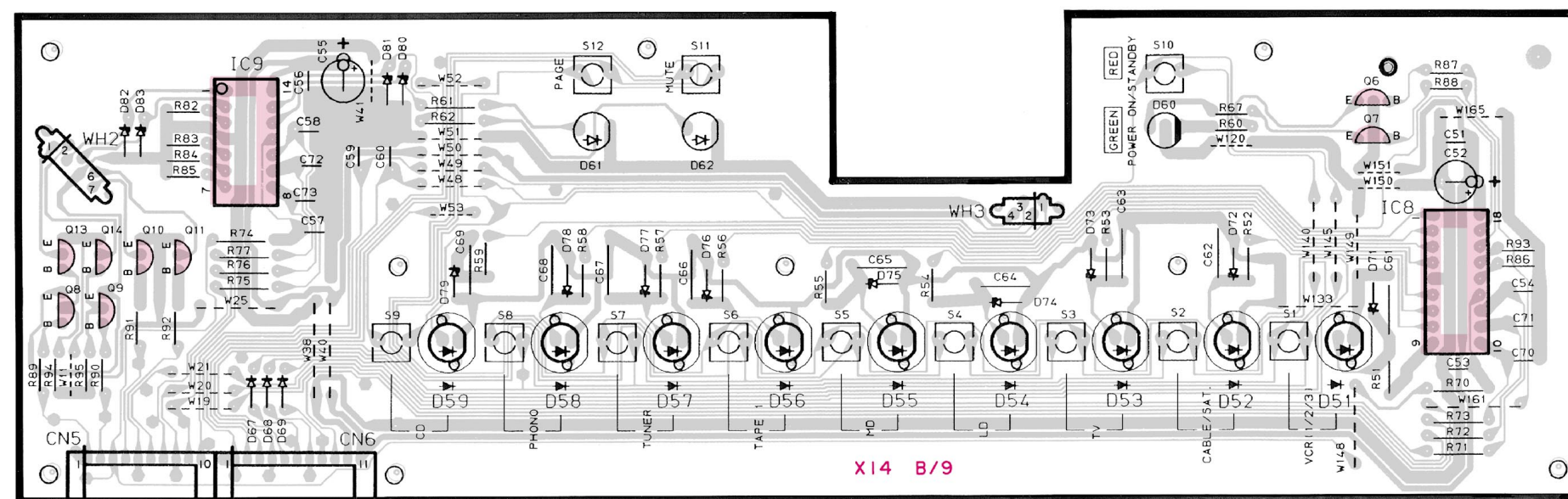
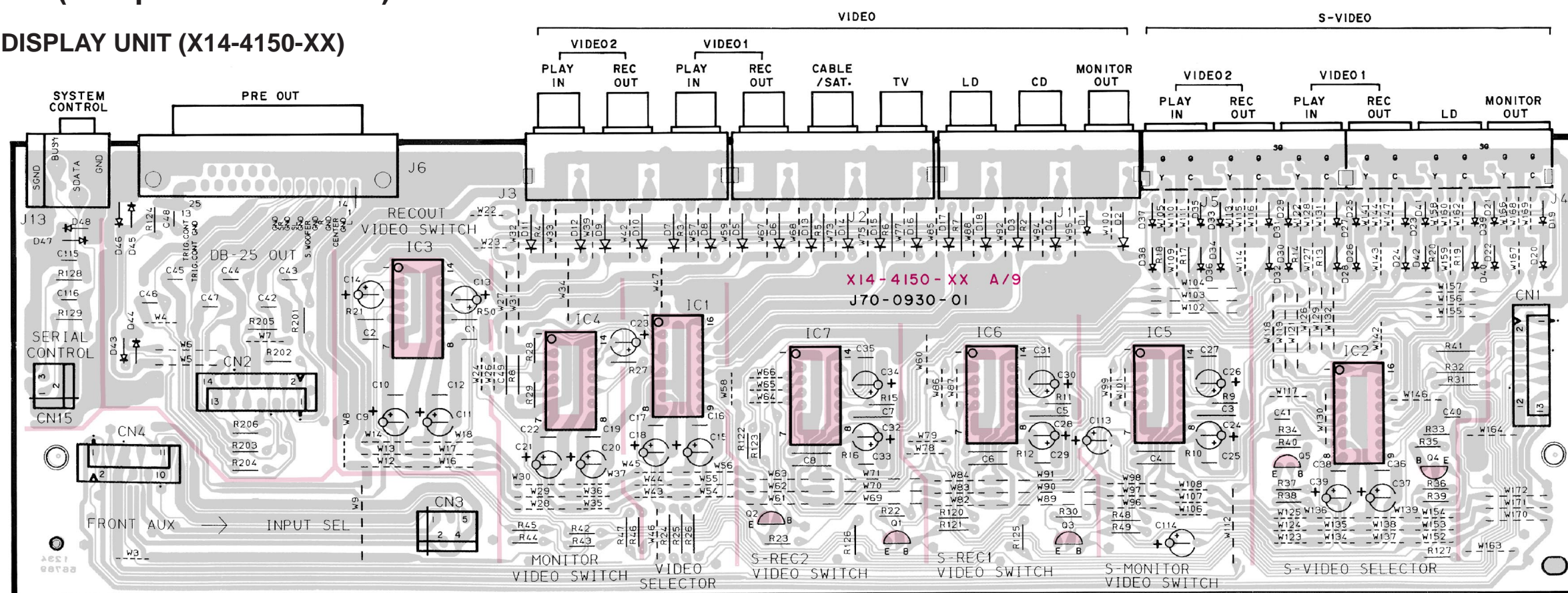
## AUDIO UNIT (X09-4330-10)





# PC BOARD (Component side view)

## DISPLAY UNIT (X14-4150-XX)



Refer to the schematic diagram for the values of resistors and capacitors.

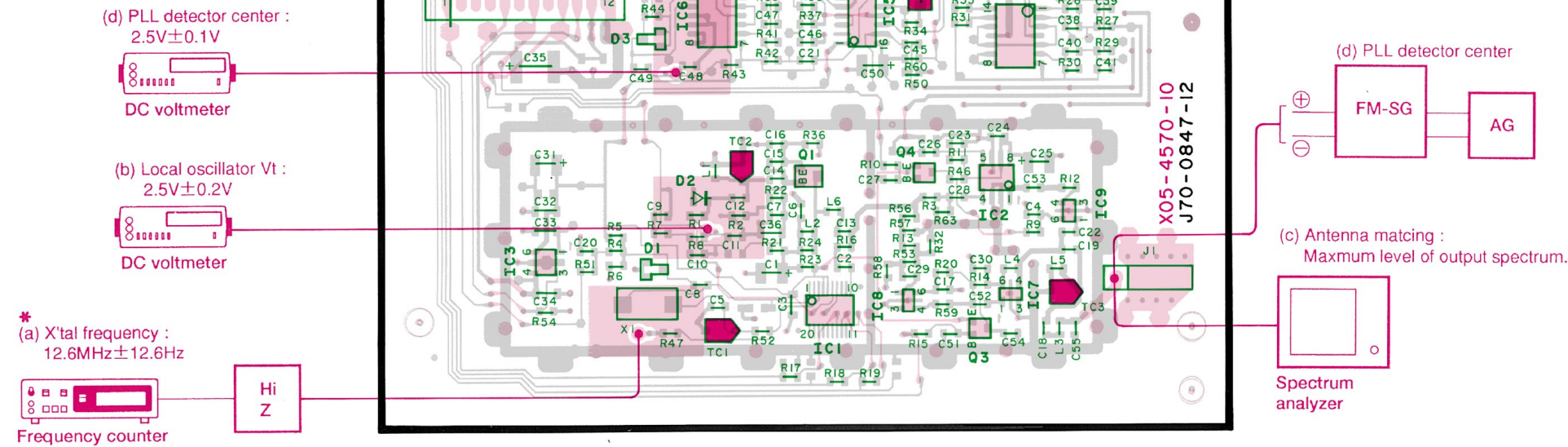






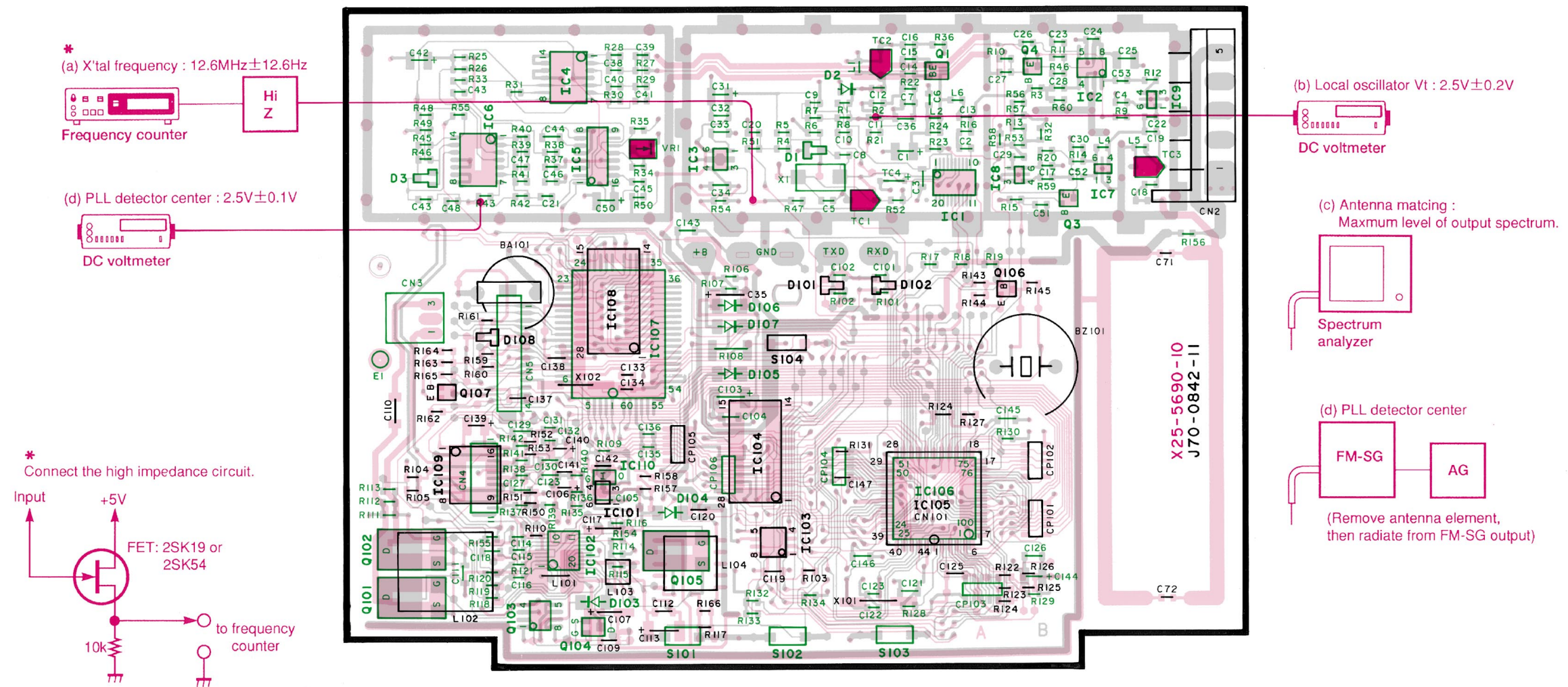
# PC BOARD (Component side view)

## REMOTE CONTROL RECEIVE/TRANSMIT UNIT (X05-4570-10)



## LCD REMOTE CONTROLLER UNIT (X25-5690-10)

[Remove the black battery board, then see the check round]

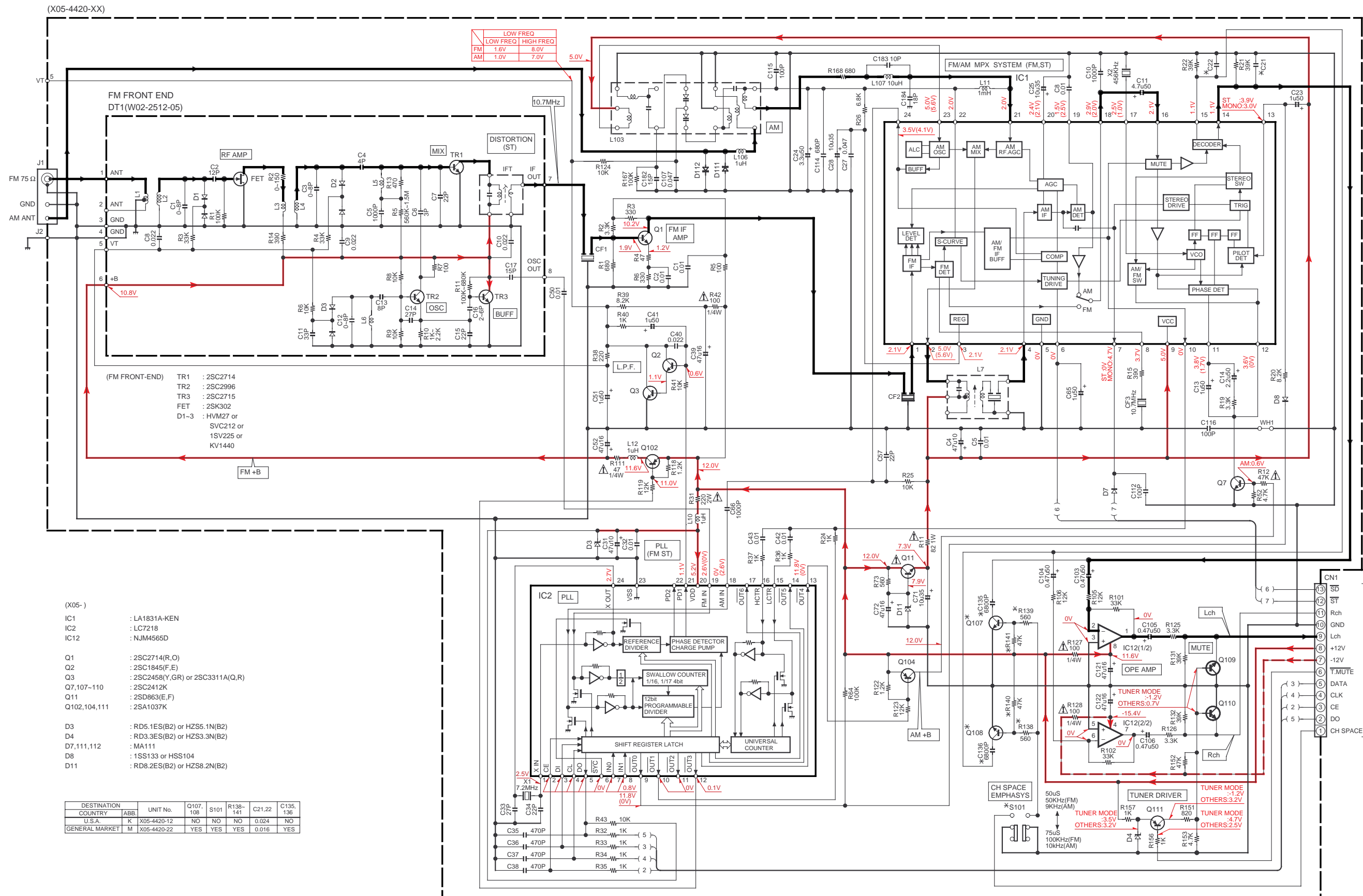


Refer to the schematic diagram for the values of resistors and capacitors.

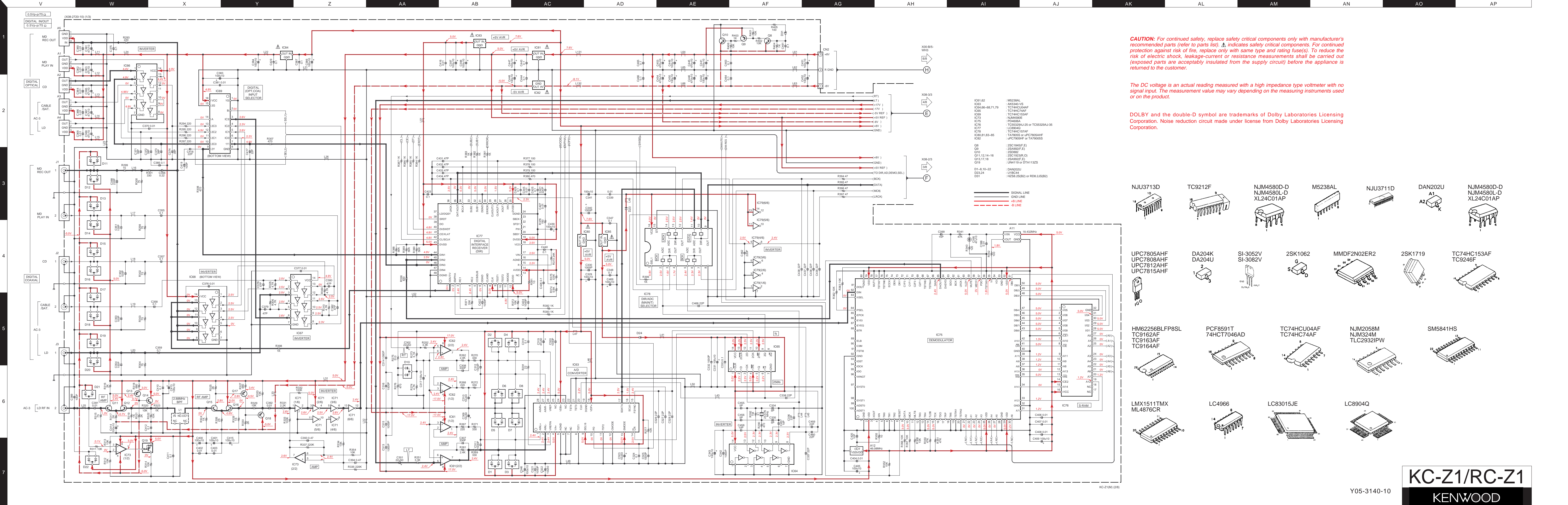


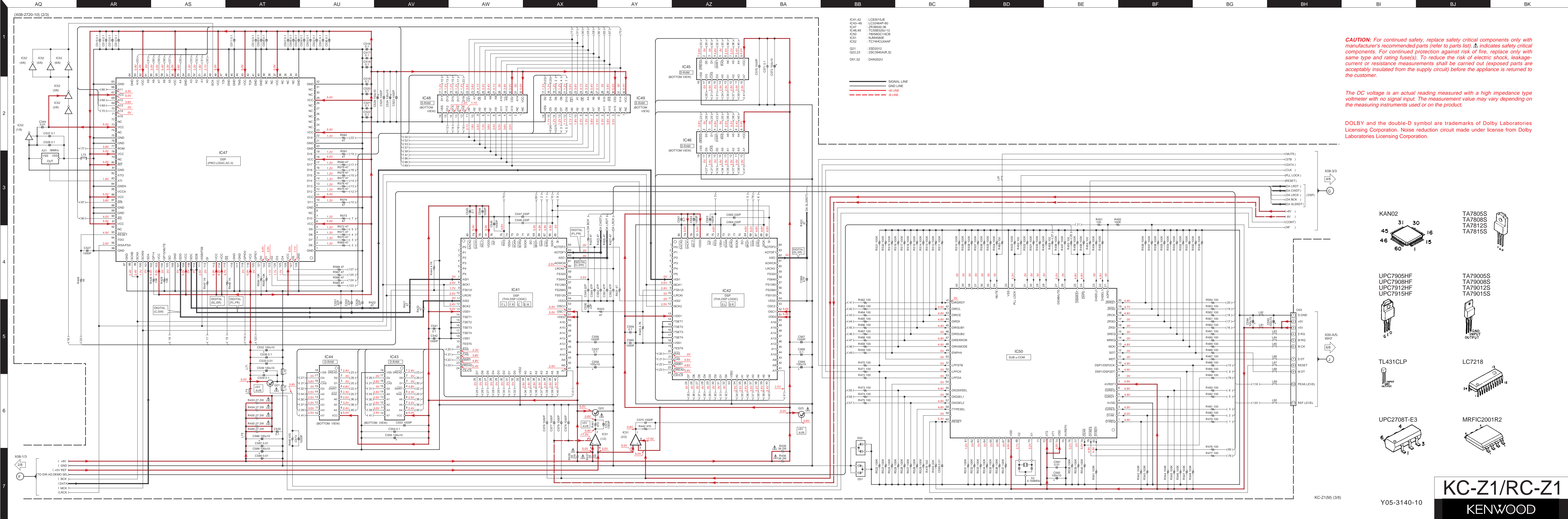
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list right. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1KHz	STEREO 67.5KHz 7.5KHz(Pilot)	60dB
AM	1000(999)KHz	400Hz	MONO 30% MOD	60dB

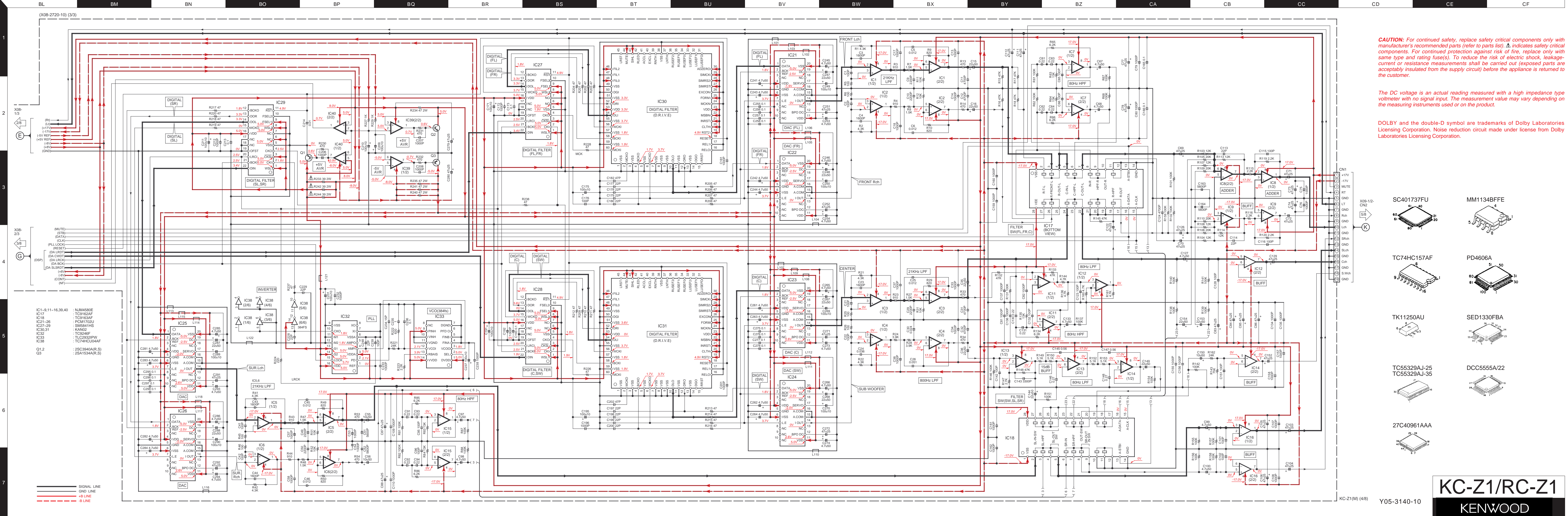




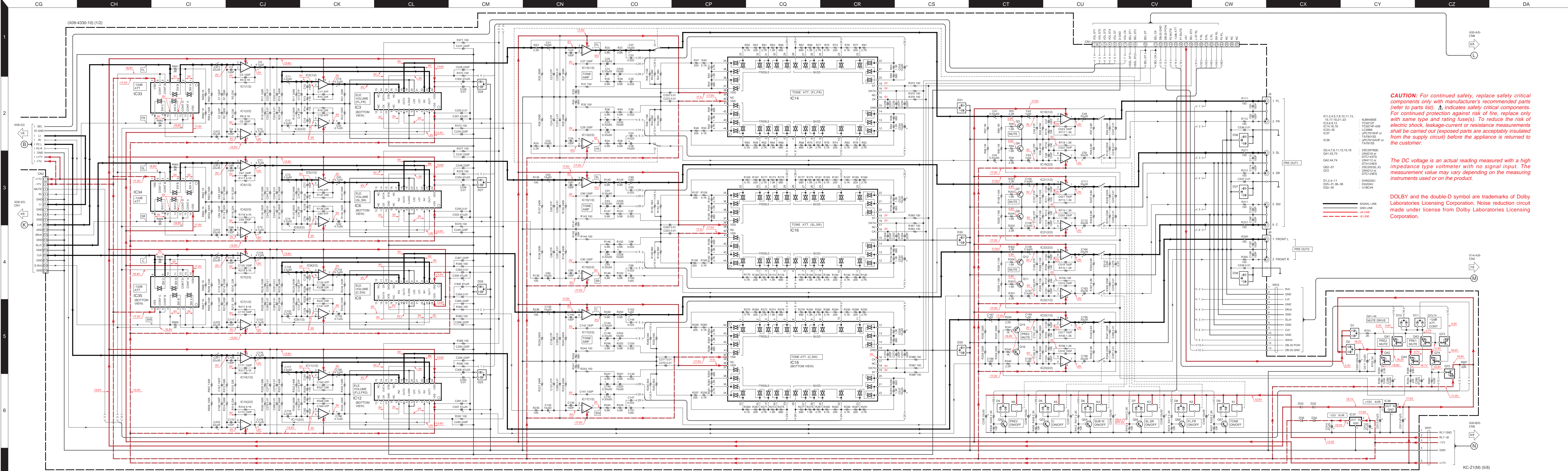












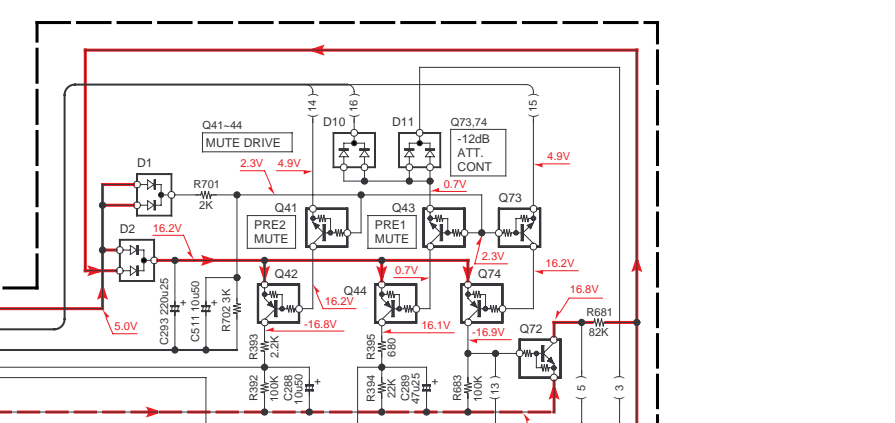
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

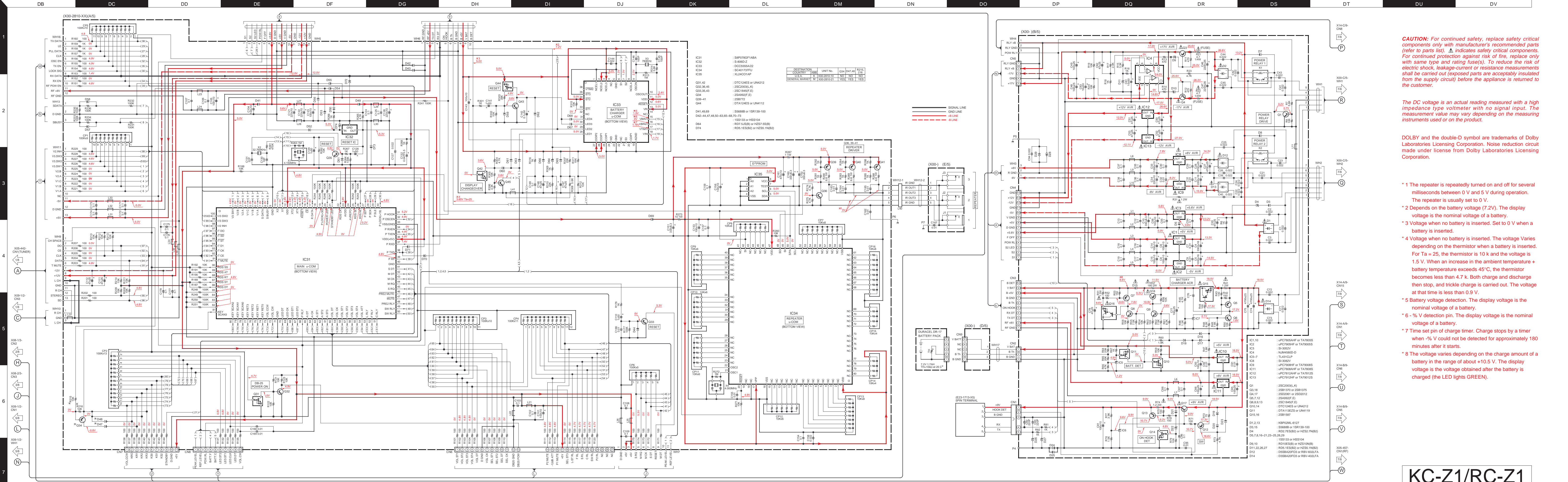
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

- |   |                 |
|---|-----------------|
| IC1,2,4,5,7,8,10,11,13,<br>15,17,19,21-23 | : NJM4580E      |
| IC3,6,9,12                                | : TC9212F       |
| IC14,16,18                                | : TC9274F-C09   |
| IC33-35                                   | : LC4966        |
| IC37                                      | : μPC7915HF or  |
| IC38                                      | : TA7901SS      |
|   | : μPC7815AHF or |
|   | : TA7815SS      |
| Q3,4,7,8,11,12,15,16                      | : 2SC2878(B)    |
| Q41,43,73                                 | : UN4216 or     |
| Q42,44,74                                 | : DT143TS       |
| Q52-57                                    | : UN4112 or     |
| Q72                                       | : DTA124ES      |
|   | : 2SC2003(LK)   |
|   | : UN4212 or     |
|   | : DT124ES       |
| D1,2,4-11                                 | : DAN202U       |
| D55-51,56-58                              | : DA9049J       |
| D32-35                                    | : U18C44        |

- |   |             |
|---|-------------|
| — | SIGNAL LINE |
| — | GND LINE    |
| — | +B LINE     |
| — | -B LINE     |







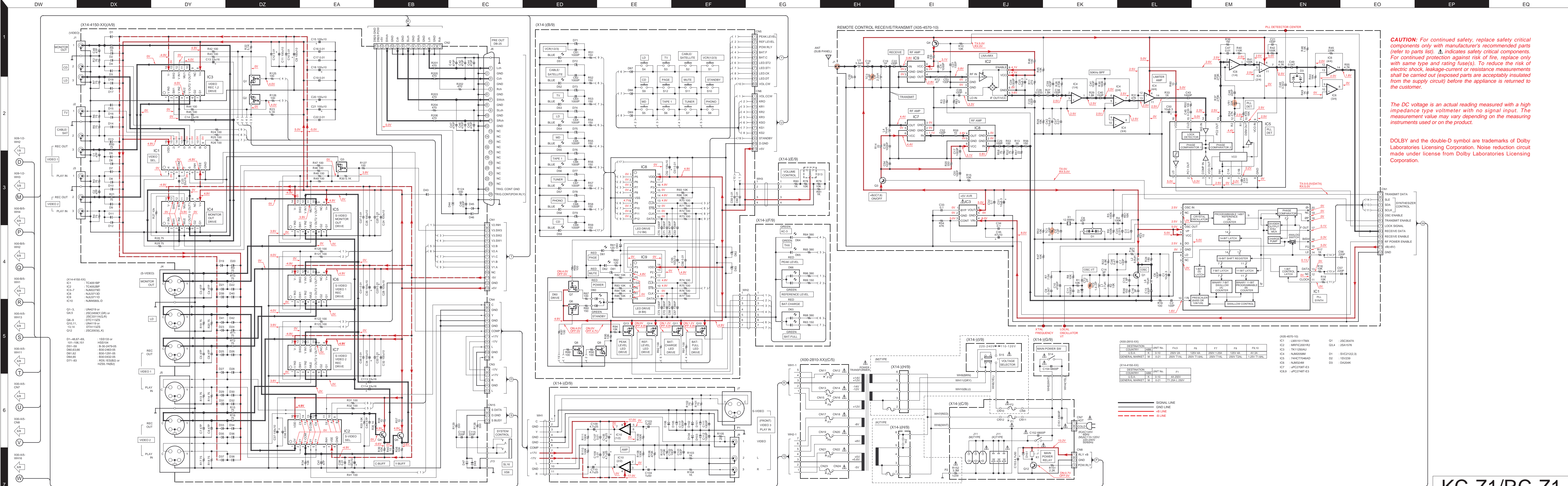
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). The repeater is usually set to 0 V.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

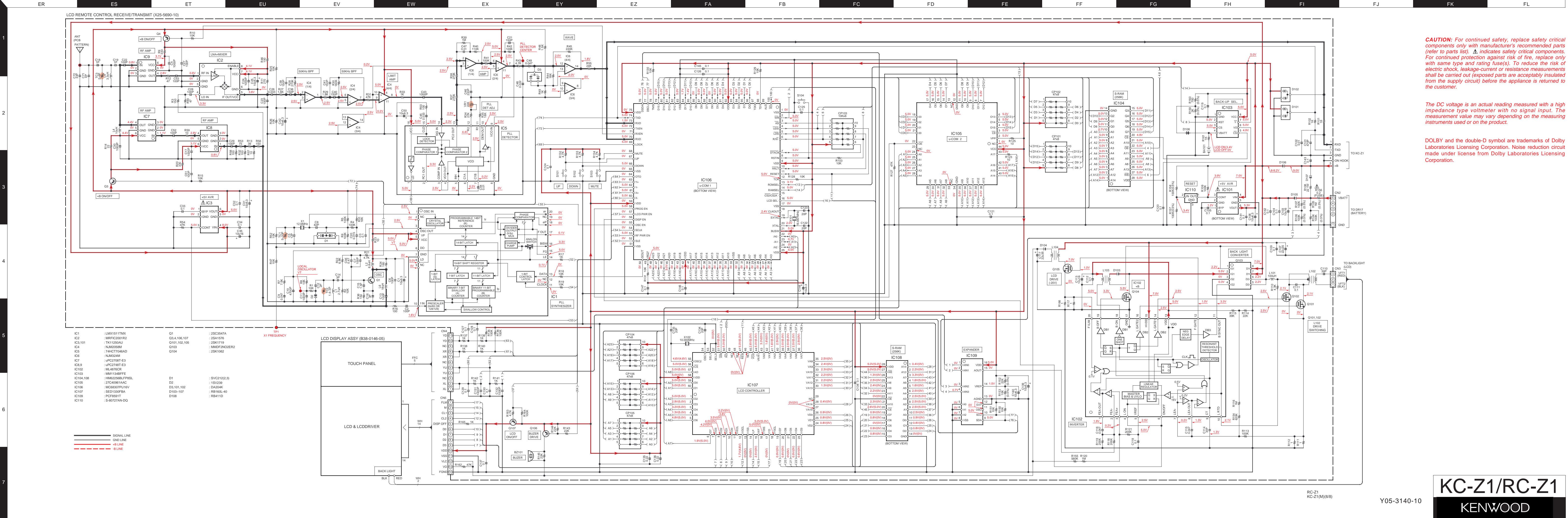
DOLBY B and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

- \* 1 The repeater is repeatedly turned on and off for several milliseconds between 0 V and 5 V during operation. The repeater is usually set to 0 V.
- \* 2 Depends on the battery voltage (7.2V). The display voltage is the nominal voltage of a battery.
- \* 3 Voltage when no battery is inserted. Set to 0 V when a battery is inserted.
- \* 4 Voltage when no battery is inserted. The voltage Varies depending on the thermistor when a battery is inserted. For Ta = 25, the thermistor is 10 k and the voltage is 1.5 V. When an increase in the ambient temperature + battery temperature exceeds 45°C, the thermistor becomes less than 4.7 k. Both charge and discharge then stop, and trickle charge is carried out. The voltage at that time is less than 0.9 V.
- \* 5 Battery voltage detection. The display voltage is the nominal voltage of a battery.
- \* 6 - % V detection pin. The display voltage is the nominal voltage of a battery.
- \* 7 Time set pin of charge timer. Charge stops by a timer when -% V could not be detected for approximately 180 minutes after it starts.
- \* 8 The voltage varies depending on the charge amount of a battery in the range of about +10.5 V. The display voltage is the voltage obtained after the battery is charged (the LED lights GREEN).









**Parts List:**

Part Number	Description
N08-0128-35	φ3x8
N09-0301-05	φ3x12
N09-0333-05	φ3x8 (BLK)
N09-1445-05	φ3x8
N09-1522-05	φ3x14
N09-2769-05	M3x10
N09-2970-05	φ3x14
N09-3139-05	J PUSH RIVET
N29-0047-05	K PUSH RIVET
N29-0067-05	L PUSH RIVET
N29-0283-05	M φ2x6
N80-2006-46	O φ2.6x6
N82-2606-46	P φ2.6x8 (BLK)
N82-2608-45	R φ4x8 (BLK)
N86-4008-45	S φ3x8 (BLK)
N89-3008-45	T φ3x8
N89-3008-46	V φ4x8
N89-4008-45	

**Control Panel Layout:**

VIDEO	CABLE /SET	TV	LD	MD	TAPE I	TUNER	PHONO	CD
S1	S2	S3	S4	S5	S6	S7	S8	S9

**Remote Power:** S10

**Mute Page:** S11 S12

Parts with the exploded numbers larger than 700 are not supplied.

# PARTS LIST

Äñ New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Deşti-nation	Re-marks
<b>KC-Z1 / RC-Z1</b>						
601	1B	Äñ	A01-3290-31	METALLIC CABINET	K M	
602	2A	Äñ	A02-1280-11	PLASTIC CABINET (RC-Z1)		
603	3A	Äñ	A09-0334-13	BATTERY COVER (RC-Z1)		
610	1D	Äñ	A21-1897-11	DRESSING PANEL(REAR)		
610	1D	Äñ	A21-1898-01	DRESSING PANEL(REAR)		
614	3A	Äñ	A46-0294-23	REAR COVER ASSY (RC-Z1)		
617	2A	Äñ	A53-1926-14	FRONT BOARD		
618	3B	Äñ	A53-1927-04	FRONT BOARD		
620	3A	Äñ	A60-0847-21	PANEL		
624	2D	Äñ	B03-2967-04	DRESSING PLATE(BATTERY:RC-Z1)		
625	2C,3D	Äñ	B07-2297-02	ESCUTCHEON		
626	2D	Äñ	B09-0097-05	OPTICAL CAP		
627	3A	Äñ	B12-0219-04	INDICATOR (RC-Z1)		
628	3B	Äñ	B12-0266-04	INDICATOR		
629	2A	Äñ	B30-2491-08	FLUORESCENT TUBE (RC-Z1)		
630	2A	Äñ	B38-0146-05	LCD DISPLAY ASSY (RC-Z1)		
-			B46-0092-43	WARRANTY CARD K		
-			B46-0121-33	WARRANTY CARD K		
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B58-0966-13	CAUTION CARD (ELM/PL)	M	
-			B58-0967-03	CAUTION CARD (P/PL)	K	
-		Äñ	B60-2476-00	INSTRUCTION MANUAL(ENGLISH)		
-		Äñ	B60-2477-00	INSTRUCTION MANUAL(FRENCH)	K	
-		Äñ	B60-2478-00	INSTRUCTION MANUAL(CHINESE)	M	
-		Äñ	B60-2479-00	INSTRUCTION MANUAL(TAIWANESE)	M	
-		Äñ	B60-2724-00	INSTRUCTION MANUAL(SPANISH)	M	
-		Äñ	B60-2758-00	INSTRUCTION MANUAL(ENGLISH)		
-		Äñ	B60-2759-00	INSTRUCTION MANUAL(FRENCH)	K	
-		Äñ	B60-2760-00	INSTRUCTION MANUAL(CHINESE)	M	
-		Äñ	B60-2761-00	INSTRUCTION MANUAL(TAIWANESE)	M	
-		Äñ	B60-2762-00	INSTRUCTION MANUAL(SPANISH)	M	
633	2B	Äñ	D21-1821-14	EXTENSION SHAFT		
△ 636	1A	Äñ	E03-0115-05	AC PLUG ADAPTOR	M	
637	3A	Äñ	E23-1709-04	TERMINAL (RC-Z1)		
638	3B	Äñ	E23-1713-05	TERMINAL		
△ 639	1D	Äñ	E30-2592-15	AC POWER CORD	M	
△ 639	1D	Äñ	E30-2650-05	AC POWER CORD	K	
640	1A	Äñ	E30-2600-05	CORD WITH PLUG(AUDIO CORD)		
641	1A	Äñ	E30-2733-05	CORD WITH PLUG(MINI PLUG)		
642	2C	Äñ	E35-0444-05	WIRING HARNESS(FFC)		
643	1B,2C	Äñ	E35-1308-05	FLAT CABLE(FFC)		
645	2B,3B	Äñ	G02-1083-04	FLAT SPRING		
646	3B	Äñ	G02-1084-04	FLAT SPRING		
647	3A	Äñ	G10-0170-04	NON-WOVEN FABRIC (RC-Z1)		
648	2C,2D	Äñ	G10-0179-04	NON-WOVEN FABRIC		
649	1B,2C	Äñ	G10-0427-04	NON-WOVEN FABRIC		
650	1C,2B	Äñ	G10-0428-04	NON-WOVEN FABRIC		
651	2C	Äñ	G11-2254-04	CUSHION		
652	3A	Äñ	G11-2261-04	CUSHION (RC-Z1)		
653	3B	Äñ	G11-2263-04	CUSHION		
654	3B	Äñ	G11-2264-04	CUSHION		

L : Scandinavia  
Y : PX(Far East, Hawaii)  
Y : AAFES(Europe)

K : USA  
T : Europe  
X : Australia  
M : Other Areas

P : Canada  
E : Europe  
G : Germany

R : Mexico  
G : Germany

△ indicates safety critical components.

Äñ New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

②

Ref. No	Add-ress	New Parts	Parts No.	Description	Deşti-nation	Re-marks
655	1C,2C	Äñ	G11-2277-04	CUSHION		
656	3A	Äñ	G13-0182-04	CUSHION (RC-Z1)		
-		Äñ	H10-7124-12	POLYSTYRENE FOAMED FIXTURE		
-		Äñ	H10-7125-12	POLYSTYRENE FOAMED FIXTURE		
-		Äñ	H10-7177-02	POLYSTYRENE FOAMED FIXTURE		
-		Äñ	H10-7178-02	POLYSTYRENE FOAMED FIXTURE		
-		Äñ	H12-2275-04	PACKING FIXTURE (RC-Z1)		
-		Äñ	H13-0229-04	CARTON BOARD (KC-Z1)		
-		Äñ	H13-0230-04	CARTON BOARD (RC-Z1)		
-		Äñ	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		Äñ	H25-0336-04	PROTECTION BAG (RC-Z1)		
-		Äñ	H25-0383-04	PROTECTION BAG		
-		Äñ	H25-1565-04	PROTECTION BAG (RC-Z1)		
-		Äñ	H25-1566-04	PROTECTION BAG (RC-Z1)		
-		Äñ	H25-1577-04	PROTECTION BAG		
-		Äñ	H50-1733-04	ITEM CARTON CASE (KC-Z1)		
-		Äñ	H50-1874-04	ITEM CARTON CASE (RC-Z1)		
657	3C,3D	Äñ	J02-1142-05	FOOT		
658	3A	Äñ	J19-0306-05	LEAD HOLDER (RC-Z1)		
659	2D	Äñ	J19-3176-05	UNIT HOLDER		
660	3C,3D	Äñ	J19-3324-15	UNIT HOLDER		
661	1A	Äñ	J19-3645-05	LOOP ANTENNA STAND		
662	2B	Äñ	J19-5630-03	HOLDER		
663	3B	Äñ	J19-5631-03	HOLDER		
664	3B	Äñ	J19-5633-14	HOLDER		
665	1C	Äñ	J19-5667-05	UNIT HOLDER		
666	3C	Äñ	J19-5682-23	HOLDER ASSY		
△ 667	1D	Äñ	J42-0083-05	POWER CORD BUSHING		
668	3C	Äñ	J52-0038-05	PUSH LATCH		
670	3B	Äñ	K29-6292-03	KNOB (INPUT SELECTOR)		
671	3A	Äñ	K29-6293-04	KNOB (VOLUME)		
672	3A	Äñ	K29-6296-13	KNOB (MUTE,VOLUME) (RC-Z1)		
673	3B	Äñ	K29-6306-03	KNOB (REMOTE POWER)		
674	2B	Äñ	K29-6307-04	KNOB (MAIN POWER)		
675	3B	Äñ	K29-6308-03	KNOB (MUTE,PAGE)		
△ 677	2C	Äñ	L07-2090-15	POWER TRANSFORMER	K	
△ 677	2C	Äñ	L07-2105-15	POWER TRANSFORMER	M	
678	2B	Äñ	L92-0058-05	FERRITE CORE		
679	1B,1C	Äñ	L92-0059-05	FERRITE CORE		
680	2D	Äñ	L92-0060-05	FERRITE CORE		
681	2C	Äñ	L92-0061-05	FERRITE CORE		
682	1B	Äñ	L92-0062-05	FERRITE CORE		
683	2B	Äñ	L92-0063-05	FERRITE CORE		
684	2C	Äñ	L92-0064-05	FERRITE CORE		
685	1C	Äñ	L92-0065-05	FERRITE CORE		
686	2A	Äñ	S79-0024-05	TOUCH SENSOR (RC-Z1)		
687	1A	Äñ	T90-0176-05	T TYPE ANTENNA		
688	3B	Äñ	T90-0814-05	ANTENNA ELEMENT		
689	1A	Äñ	T90-0826-05	LOOP ANTENNA		
690	1A	Äñ	T90-0827-05	ANTENNA ADAPTOR		
692	1A	Äñ	W02-2542-05	TRANSMITTING ASSY		
693	1A	Äñ	W03-4898-05	BATTERY		

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695	2A	Äñ	X94-1080-10	REMOTE CONTROL ASSY UNIT		
<b>POWER SUPPLY UNIT (X00-2810-XX)</b>						
C1 -3			CK45FF1H223Z	CERAMIC 0.022UF Z		
C4			CE04KW1C332M	ELECTRO 3300UF 16WV		
C5			CE04KW1C102M	ELECTRO 1000UF 16WV		
C6			CE04KW1A101M	ELECTRO 100UF 10WV		
C7			CQ93FMG1H103J	MYLAR 0.010UF J		
C8			CE04KW1A101M	ELECTRO 100UF 10WV		
C9			CQ93FMG1H103J	MYLAR 0.010UF J		
C10			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C11			CE04KW1C222M	ELECTRO 2200UF 16WV		
C12 ,13			CQ93FMG1H104J	MYLAR 0.10UF J		
C14 ,15			CE04KW1A101M	ELECTRO 100UF 10WV		
C16 -19			CQ93FMG1H104J	MYLAR 0.10UF J		
C20			CE04KW1E470M	ELECTRO 47UF 25WV		
C21 -26			CK45FF1H223Z	CERAMIC 0.022UF Z		
C27 ,28			CE04KW1E472M	ELECTRO 4700UF 25WV		
C29 ,30			CQ93FMG1H104J	MYLAR 0.10UF J		
C31 ,32			CQ93FMG1H103J	MYLAR 0.010UF J		
C33			CE04KW1A102M	ELECTRO 1000UF 10WV		
C34			CE04KW1A221M	ELECTRO 220UF 10WV		
C35 -38			CQ93FMG1H104J	MYLAR 0.10UF J		
C39 -45			CK45FF1H223Z	CERAMIC 0.022UF Z		
C46 ,47			CE04KW1V222M	ELECTRO 2200UF 35WV		
C48 ,49			CE04KW1E101M	ELECTRO 100UF 25WV		
C50 -53			CE04KW1E470M	ELECTRO 47UF 25WV		
C54 ,55			CQ93FMG1H104J	MYLAR 0.10UF J		
C56			CE04KW1A101M	ELECTRO 100UF 10WV		
C61			CE04KW1H100M	ELECTRO 10UF 50WV		
C62			CE04KW1E470M	ELECTRO 47UF 25WV		
C63			CE04KW1H100M	ELECTRO 10UF 50WV		
C71 -73			CK45FF1H223Z	CERAMIC 0.022UF Z		
C74 ,75			CE04KW1E472M	ELECTRO 4700UF 25WV		
C76			CF92FV1H105J	MF-C 1.0UF J		
C77			CE04KW1E101M	ELECTRO 100UF 25WV		
C78			CE04KW1E470M	ELECTRO 47UF 25WV		
C81			CE04KW1A101M	ELECTRO 100UF 10WV		
C82 ,83			CC45FSL1H221J	CERAMIC 220PF J		
C85 ,86			CE04KW1E101M	ELECTRO 100UF 25WV		
C87 ,88			CQ93FMG1H104J	MYLAR 0.10UF J		
C91 ,92			CQ93FMG1H103J	MYLAR 0.010UF J		
C93			CE04KW1A101M	ELECTRO 100UF 10WV		
C94			CK45FF1H223Z	CERAMIC 0.022UF Z		
C95			CK45FF1H103Z	CERAMIC 0.010UF Z		
C96			CQ93FMG1H104J	MYLAR 0.10UF J		
C101			CE04KW1A101M	ELECTRO 100UF 10WV		
C102,103			CQ93FMG1H104J	MYLAR 0.10UF J		
C104,105			CE04KW1A101M	ELECTRO 100UF 10WV		
C106-109			CQ93FMG1H104J	MYLAR 0.10UF J		
C110			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C111,112			CE04KW1E470M	ELECTRO 47UF 25WV		
C121,122			CE04KW1A221M	ELECTRO 220UF 10WV		
C123			CE04KW1A101M	ELECTRO 100UF 10WV		
C124,125			CQ93FMG1H104J	MYLAR 0.10UF J		

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C126			CE04KW1A221M	ELECTRO 220UF 10WV		
C127			CK45FF1H223Z	CERAMIC 0.022UF Z		
C128,129			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C130			CC45FCH1H180J	CERAMIC 18PF J		
C131			CC45FCH1H220J	CERAMIC 22PF J		
C132			C90-1827-05	ELECTRO 0.047F 5.5WV		
C141			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C142			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C143			CE04KW1A101M	ELECTRO 100UF 10WV		
C144			CK45FF1H223Z	CERAMIC 0.022UF Z		
C145,146			CC45FCH1H101J	CERAMIC 100PF J		
C147,148			CE04KW1E470M	ELECTRO 47UF 25WV		
C149			CQ93FMG1H104J	MYLAR 0.10UF J		
C151,152			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C153			CE04KW1A101M	ELECTRO 100UF 10WV		
C154			CQ93FMG1H104J	MYLAR 0.10UF J		
C155			CQ93FMG1H103J	MYLAR 0.010UF J		
C156			CE04KW1A101M	ELECTRO 100UF 10WV		
C157			CQ93FMG1H104J	MYLAR 0.10UF J		
C158			CK45FF1H223Z	CERAMIC 0.022UF Z		
C159			CQ93FMG1H104J	MYLAR 0.10UF J		
C160			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C161			CE04KW1A471M	ELECTRO 470UF 10WV		
C162-167			CK45FF1H103Z	CERAMIC 0.010UF Z		
C168,169			CQ93FMG1H103J	MYLAR 0.010UF J		
C171-178			CQ93FMG1H104J	MYLAR 0.10UF J		
CN1			E40-3263-05	PIN ASSY		
CN2			E40-4293-05	FLAT CABLE CONNECTOR		
CN3			E40-4284-05	FLAT CABLE CONNECTOR		
CN4			E40-4608-05	PIN ASSY		
CN5			E40-4295-05	FLAT CABLE CONNECTOR		
CN6			E40-4914-05	FLAT CABLE CONNECTOR		
CN7			E40-4368-05	PIN ASSY		
CN8			E40-3254-05	PIN ASSY		
CN9			E40-9814-05	PIN ASSY		
J1 -3			E11-0220-05	MINIATURE PHONE JACK		
△ 697		1A,1B	F20-1405-15	INSULATING SHEET		
△ F4 ,5			F04-2025-05	FUSE (UL) (250V 2A)	K	
△ F4 ,5			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M	
△ F6			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	M	
△ F6			F05-4028-05	FUSE (UL) (125V 4A)	K	
△ F7		Äñ	F06-1022-05	FUSE (SEMKO) (250V T1AL)	M	
△ F7			F06-1222-05	FUSE (UL) (250V 1.25A)	K	
△ F8			F05-4028-05	FUSE (UL) (125V 4A)	K	
△ F8			F06-2021-05	FUSE (SEMKO) (250V T2AL)	M	
△ F9 ,10			F04-2025-05	FUSE (UL) (250V 2A)	K	
△ F9 ,10			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	M	
CN11-24			J13-0075-05	FUSE CLIP		
L1 -7			L92-0044-05	FERRITE CORE		
L8 -11			L92-0017-05	FERRITE CORE		
L21 -24			L92-0044-05	FERRITE CORE		
L25 ,26			L92-0017-05	FERRITE CORE		
L27 -30			L92-0044-05	FERRITE CORE		

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5

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L31 -33 L34 -37 L40 L41 X1		Äñ	L92-0017-05 L92-0044-05 L92-0059-05 L92-0044-05 L78-0663-05	FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE RESONATOR (4.150MHZ)		
X2 X3 X4		Äñ	L77-2140-05 L78-0639-05 L78-0244-05	CRYSTAL RESONATOR(32.768KHZ) RESONATOR (780KHZ) RESONATOR (4.000M)		
CP1 CP2 CP3 CP4 CP5			R90-0493-05 R90-0483-05 R90-0802-05 R90-0851-05 R90-0802-05	MULTI-COMP 100KX9 J 1/6W MULTI-COMP 100KX13 J 1/6W MULTI-COMP 100KX10 J 1/4W MULTI-COMP 100KX11 J 1/4W MULTI-COMP 100KX10 J 1/4W		
CP6 CP7 CP8 -12 CP13 CP14,15			R90-0855-05 R90-0805-05 R90-0810-05 R90-0805-05 R90-0809-05	MULTI-COMP 100KX5 J 1/4W MULTI-COMP 10KX8 J 1/4W MULTI-COMP 10K X6 J 1/4W MULTI-COMP 10KX8 J 1/4W MULTI-COMP 10KX4 J 1/6W		M
CP16 R21 ,22 R31 R41 R51			R90-0805-05 R92-0341-05 RS14DB3D102J RS14DB3D1R0J RS14DB3D1R0J	MULTI-COMP 10KX8 J 1/4W FUSE RESIST 4.7 J 1/4W FL-PROOF RS 1.0K J 2W FL-PROOF RS 1.0 J 2W FL-PROOF RS 1.0 J 2W		
R57 R74 R273 R287 R288-290		Äñ	RS14DB3D181J RS14DB3D1R2J RS14DB3A100J RS14DB3A1R0J RS14DB3A6R8J	FL-PROOF RS 180 J 2W FL-PROOF RS 1.2 J 2W FL-PROOF RS 10 J 1W FL-PROOF RS 1.0 J 1W FL-PROOF RS 6.8 J 1W		
K1 ,2			S51-2094-05	MAGNETIC RELAY		
D1 ,2 D3 D3 D4 D4			KBP02ML-6127 S5688B 1SR139-100 HZS2.7N(B2) RD2.7ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D5 D5 D7 ,8 D7 ,8 D9 ,10			HSS104 1SS133 HSS104 1SS133 HZS10N(B)	DIODE DIODE DIODE DIODE ZENER DIODE		
D9 ,10 D11 D11 D12 D12			RD10ES(B) HZS5.1N(B2) RD5.1ES(B2) D5SBA20F03 RBV-602LFA	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D13 D14 D14 D15 D15			KBP02ML-6127 D3SBA20F03 RBV-402LFA S5688B 1SR139-100	DIODE DIODE DIODE DIODE DIODE		
D16 -21 D16 -21 D22 D22 D23 -25			HSS104 1SS133 HZS5.1N(B2) RD5.1ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		

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D23 -25 D26 ,27 D26 ,27 D28 ,29 D28 ,29			1SS133 HZS5.1N(B2) RD5.1ES(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D41 D41 D42 -44 D42 -44 D47 ,48			S5688B 1SR139-100 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE		M
D47 ,48 D49 D49 D50 -63 D50 -63			1SS133 S5688B 1SR139-100 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		M
D64 D64 D65 -68 D65 -68 D69			HZS7.5S(B) RD7.5JS(B) HSS104 1SS133 S5688B	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D69 D70 -73 D70 -73 D74 D74			1SR139-100 HSS104 1SS133 HZS5.1N(B2) RD5.1ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
IC1 IC1 IC2 IC2 IC3			TA7805S UPC7805AHF TA79005S UPC7905HF SI-3052V	IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ -5V) IC(VOLTAGE REGULATOR/ -5V) ANALOGUE IC		
IC4 IC5 -7 IC8 IC9 IC9			NJM4580D-D TL431CLP SI-3082V TA79008S UPC7908HF	IC(OP AMP X2) MOS-IC ANALOGUE IC IC(VOLTAGE REGULATOR/ -8V) IC(VOLTAGE REGULATOR/ -8V)		
IC10 IC10 IC11 IC11 IC12			TA7805S UPC7805AHF TA7808S UPC7808AHF TA7812S	IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +8V) IC(VOLTAGE REGULATOR/ +8V) IC(VOLTAGE REGULATOR/ +12V)		
IC12 IC13 IC13 IC31 IC32			UPC7812AHF TA79012S UPC7912HF 78P078GF1ABA S-806D-Z	IC(VOLTAGE REGULATOR/ +12V) IC(VOLTAGE REGULATOR/ -12V) IC(VOLTAGE REGULATOR/ -12V) MI-COM IC ANALOGUE IC		
IC33 IC34 IC35 Q1 Q3		Äñ	DCC5555A/22 SC401737FU XL24C01AP 2SC2003(L,K) 2SB1370	MI-COM IC MI-COM IC MEMORY IC TRANSISTOR TRANSISTOR		
Q3 Q4 Q4 Q5 Q6			2SB1375 2SD2012 2SD2061 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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7

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Q7 Q8 ,9 Q10 Q10 Q11			2SA992(F,E) 2SC1845(F,E) DTC124ES UN4212 DTA113ZS	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q11 Q12 Q13 Q14 Q14			UN4119 2SA992(F,E) 2SC1845(F,E) DTC124ES UN4212	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Ä Q15 ,16 Ä Q17 Ä Q17 Ä Q18 Ä Q18			2SB1587 2SD2012 2SD2061 2SB1370 2SB1375	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q31 Q31 Q32 Q33 Q34			DTC124ES UN4212 2SC2003(L,K) 2SC1845(F,E) 2SA992(F,E)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M	
Q35 Q36 Q39 -41 Q42 Q42			2SC1845(F,E) 2SC2003(L,K) 2SB772 DTC124ES UN4212	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q43 Q44 Q44 Q45			2SC1845(F,E) DTA124ES UN4112 2SC2003(L,K)	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
<b>TUNER UNIT (X05-4420-XX)</b>						
C1 ,2 C4 C5 C8 C10			CK73FB1H103K CE04KW1A470M CK73FB1H103K CK73FB1H103K CK73FB1H102K	CHIP C 0.010UF K ELECTRO 47UF 10WV CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 1000PF K		
C11 C13 C14 C21 ,22 C21 ,22		Äñ	CE04KW1H47R7M CE04KW1H010M CE04KW1H2R2M CQ92FM1H163J CQ92FM1H243J	ELECTRO 4.7UF 50WV ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV MYLAR 0.016UF J MYLAR 0.024UF J	M K	
C23 C24 C25 C27 C28			CE04KW1H010M CE04KW1H3R3M CE04KW1V100M CK73FB1E473K CE04KW1V100M	ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV ELECTRO 10UF 35WV CHIP C 0.047UF K ELECTRO 10UF 35WV		
C31 C32 C33 C34 C35 -38			CE04KW1A470M CK73FB1H103K CC73FCH1H270J CC73FCH1H220J CK73FB1H471K	ELECTRO 47UF 10WV CHIP C 0.010UF K CHIP C 27PF J CHIP C 22PF J CHIP C 470PF K		
C39 C40 C41 C42 ,43 C50			CE04KW1C470M CK73FB1H223K CE04KW1H010M CK73FB1H103K C91-0769-05	ELECTRO 47UF 16WV CHIP C 0.022UF K ELECTRO 1.0UF 50WV CHIP C 0.010UF K CERAMIC 0.010UF K		

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C51 C52 C57 C65 C66			CE04KW1H010M CE04KW1C470M CC73FSL1H220J CE04KW1H010M CK73FB1H102K	ELECTRO 1.0UF 50WV ELECTRO 47UF 16WV CHIP C 22PF J ELECTRO 1.0UF 50WV CHIP C 1000PF K		
C71 C72 C103-106 C107 C112			CE04KW1V100M CE04KW1C470M CE04KW1HR47M CK73FB1E473K CC73FSL1H101J	ELECTRO 10UF 35WV ELECTRO 47UF 16WV ELECTRO 0.47UF 50WV CHIP C 0.047UF K CHIP C 100PF J		
C114 C115,116 C121,122 C135,136 C182			CK73FB1H681K CC73FSL1H101J CE04KW1C470M CQ92FM1H682J CC73FSL1H150J	CHIP C 680PF K CHIP C 100PF J ELECTRO 47UF 16WV MYLAR 6800PF J CHIP C 15PF J	M	
CN1 J1			E40-4234-05 E20-0321-05	FLAT CABLE CONNECTOR LOCK TERMINAL BOARD(2P,F)		
CF1 ,2 CF3 L7 L10 L11			L72-0531-05 L72-0574-05 L30-0467-05 L40-1091-17 L40-1021-14	CERAMIC FILTER CERAMIC FILTER AM IFT SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1.0MH,K)		
L12 L103 L106 X1 X2	Äñ		L40-1091-17 L39-1349-05 L40-1091-17 L77-2148-05 L78-0295-05	SMALL FIXED INDUCTOR(1UH) COMBINATION COIL SMALL FIXED INDUCTOR(1UH) CRYSTAL RESONATOR(7.2MHZ) RESONATOR (456KHZ)		
R1 R2 R3 R4 R6			RK73FB2A681J RK73FB2A332J RK73FB2A331J RK73FB2A470J RK73FB2A331J	CHIP R 680 J 1/10W CHIP R 3.3K J 1/10W CHIP R 330 J 1/10W CHIP R 47 J 1/10W CHIP R 330 J 1/10W		
Ä R11 R15 R19 R21 ,22 R24			RS14KB3A820J RK73FB2A391J RK73FB2A332J RK73FB2A393J RK73FB2A102J	FL-PROOF RS 82 J 1W CHIP R 390 J 1/10W CHIP R 3.3K J 1/10W CHIP R 39K J 1/10W CHIP R 1.0K J 1/10W		
Ä R25 R31 R32 -37 R38 R39			RK73FB2A103J RS14KB3D221J RK73FB2A102J RK73FB2A221J RK73FB2A822J	CHIP R 10K J 1/10W FL-PROOF RS 220 J 2W CHIP R 1.0K J 1/10W CHIP R 220 J 1/10W CHIP R 8.2K J 1/10W		
Ä R40 R42 R43 R52 R64			RK73FB2A102J RD14NB2E101J RK73FB2A103J RK73FB2A472J RK73FB2A104J	CHIP R 1.0K J 1/10W RD 100 J 1/4W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W CHIP R 100K J 1/10W		
R101,102 R105,106 R111 R118 R119	Ä		RK73FB2A333J RK73FB2A123J RD14NB2E470J RK73FB2A122J RK73FB2A123J	CHIP R 33K J 1/10W CHIP R 12K J 1/10W RD 47 J 1/4W CHIP R 1.2K J 1/10W CHIP R 12K J 1/10W		
R122 R123			RK73FB2A122J RK73FB2A123J	CHIP R 1.2K J 1/10W CHIP R 12K J 1/10W		

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9

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R124 R125,126 R127,128 R131,132 R138,139			RK73FB2A103J RK73FB2A332J RD14NB2E101J RK73FB2A393J RK73FB2A561J	CHIP R 10K J 1/10W CHIP R 3.3K J 1/10W RD 100 J 1/4W CHIP R 39K J 1/10W CHIP R 560 J 1/10W	M	
R140,141 R151 R152 R153 R156,157			RK73FB2A473J RK73FB2A821J RK73FB2A473J RK73FB2A472J RK73FB2A102J	CHIP R 47K J 1/10W CHIP R 820 J 1/10W CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W	M	
R167 W46 W48			RK73FB2A104J R92-0670-05 R92-0670-05	CHIP R 100K J 1/10W CHIP R 0 OHM CHIP R 0 OHM		
S101			S62-0034-05	SLIDE SWITCH	M	
D3 D3 D4 D4 D7			HZS5.1N(B2) RD5.1ES(B2) HZS3.3N(B2) RD3.3ES(B2) MA111	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D8 D8 D11 D11 D11,112			HSS104 1SS133 HZS8.2N(B2) RD8.2ES(B2) MA111	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
IC1 IC2 IC12 Q1 Q2			LA1831A-KEN LC7218 NJM4565D 2SC2714(R,O) 2SC1845(F,E)	ANALOGUE IC IC(PLL FREQUENCY SYNTHESIZER) IC(OP AMP X2) TRANSISTOR TRANSISTOR		
Q3 Q3 Q7 Q11 Q102			2SC2458(Y,GR) 2SC3311A(Q,R) 2SC2412K 2SD863(E,F) 2SA1037K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q104 Q107-110 Q109,110 Q111			2SA1037K 2SC2412K 2SC2412K 2SA1037K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M K	
<b>REMOTE CONTROL RECEIVE/TRANSMIT UNIT (X05-4570-10)</b>						
C1 C2 C3 C4 C5			C92-0509-05 CC73FSL1H101J CK73EB1H104K CK73FB1H102K CC73FCH1H120J	CHIP-TAN 10UF 6.3VV CHIP C 100PF J CHIP C 0.10UF K CHIP C 1000PF K CHIP C 12PF J		
C6 ,7 C8 C9 C10 C11			CC73FSL1H101J CC73FCH1H820J CK73FB1H473K CK73FB1H472K CK73FB1H102K	CHIP C 100PF J CHIP C 82PF J CHIP C 0.047UF K CHIP C 4700PF K CHIP C 1000PF K		
C12 C13 C14			CC73FUJ1H020C CC73FSL1H101J CC73FUJ1H030C	CHIP C 2.0PF C CHIP C 100PF J CHIP C 3.0PF C		

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10

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C15 C16 C17 C18 ,19 C20			CC73FCH1H1R5C CC73FCH1H030C CK73FB1H102K CC73FCH1H010C CK73FB1H153K	CHIP C 1.5PF C CHIP C 3.0PF C CHIP C 1000PF K CHIP C 1.0PF C CHIP C 0.015UF K		
C21 C22 ,23 C24 C25 C26			CC73FSL1H151J CC73FSL1H101J CK73FB1H102K C92-0509-05 CK73FB1H333K	CHIP C 150PF J CHIP C 100PF J CHIP C 1000PF K CHIP-TAN 10UF 6.3VV CHIP C 0.033UF K		
C27 -29 C30 C31 C32 -34 C35			CC73FSL1H101J CK73FB1H102K C92-0509-05 CK73EB1H104K C92-0135-05	CHIP C 100PF J CHIP C 1000PF K CHIP-TAN 10UF 6.3VV CHIP C 0.10UF K CHIP(TAN 47UF 10VV		
C36 C37 C38 -41 C42 C43			CK73EB1C474K CK73FB1H103K CC73FSL1H151J C92-0509-05 CK73FB1H102K	CHIP C 0.47UF K CHIP C 0.010UF K CHIP C 150PF J CHIP-TAN 10UF 6.3VV CHIP C 1000PF K		
C44 C45 C46 C47 C48			C93-0030-05 CK73FB1H333K CC73FSL1H221J CK73FB1H103K CK73FB1H223K	CHIP C 0.01UF J CHIP C 0.033UF K CHIP C 220PF J CHIP C 0.010UF K CHIP C 0.022UF K		
C49 C50 C51 -54 C55 C56 ,57			CK73FB1H473K C92-0509-05 CC73FSL1H101J CC73FCH1H030C CC73FSL1H221J	CHIP C 0.047UF K CHIP-TAN 10UF 6.3VV CHIP C 100PF J CHIP C 3.0PF C CHIP C 220P J		
TC1 TC2 TC3			C05-0233-05 C05-0228-05 C05-0229-05	CERAMIC TRIMMER CAPACITOR(5-20 C TRIMMER 1.4-3.0PF CERAMIC TRIMMER CAPACITOR(2-6P		
CN1 J1			E40-3256-05 E04-0190-05	PIN ASSY RF COAXIAL CABLE RECEPTACLE		
L1 L2 L3 L4 L5			L33-1273-05 L40-6865-35 L33-1274-05 L40-1075-35 L33-1272-05	SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(6.8NH) SMALL FIXED INDUCTOR(3.3NH) SMALL FIXED INDUCTOR(10NH) SMALL FIXED INDUCTOR(2.2NH)		
L6 X1			L40-1875-35 L77-2164-05	SMALL FIXED INDUCTOR(18NH) CRYSTAL RESONATOR(12.6MHZ)		
R1 ,2 R3 R4 -6 R7 R8			RK73FB2A103J RK73FB2A151J RK73FB2A104J RK73FB2A752J RK73FB2A103J	CHIP R 10K J 1/10W CHIP R 150 J 1/10W CHIP R 100K J 1/10W CHIP R 7.5K J 1/10W CHIP R 10K J 1/10W		
R9 R10 R11 R12 R13			RK73FB2A331J RK73FB2A103J RK73FB2A271J RK73FB2A470J RK73FB2A390J	CHIP R 330 J 1/10W CHIP R 10K J 1/10W CHIP R 270 J 1/10W CHIP R 47 J 1/10W CHIP R 39 J 1/10W		
R14 R15			RK73FB2A220J RK73FB2A103J	CHIP R 22 J 1/10W CHIP R 10K J 1/10W		

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11

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R16			RK73FB2A101J	CHIP R 100 J 1/10W		
R17			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R18 ,19			RK73FB2A103J	CHIP R 10K J 1/10W		
R20			RK73FB2A331J	CHIP R 330 J 1/10W		
R21			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R22			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R23			RK73FB2A100J	CHIP R 10 J 1/10W		
R24			RK73FB2A181J	CHIP R 180 J 1/10W		
R25 ,26			RK73FB2A103J	CHIP R 10K J 1/10W		
R27			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R28			RK73FB2A274J	CHIP R 270K J 1/10W		
R29			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R30			RK73FB2A184J	CHIP R 180K J 1/10W		
R31			RK73FB2A473J	CHIP R 47K J 1/10W		
R32			RK73FB2A750J	CHIP R 75 J 1/10W		
R33			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R34			RK73FB2A273J	CHIP R 27K J 1/10W		
R35			RK73FB2A183J	CHIP R 18K J 1/10W		
R36			RK73FB2A151J	CHIP R 150 J 1/10W		
R37 ,38			RK73FB2A274J	CHIP R 270K J 1/10W		
R39			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R40			RK73FB2A114J	CHIP R 110K J 1/10W		
R41 ,42			RK73FB2A104J	CHIP R 100K J 1/10W		
R43			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R44			RK73FB2A183J	CHIP R 18K J 1/10W		
R45			RK73FB2A224J	CHIP R 220K J 1/10W		
R46			RK73FB2A101J	CHIP R 100 J 1/10W		
R47			RK73FB2A103J	CHIP R 10K J 1/10W		
R48			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R49			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R50			RK73FB2A101J	CHIP R 100 J 1/10W		
R51			RK73FB2A183J	CHIP R 18K J 1/10W		
R52			RK73FB2A103J	CHIP R 10K J 1/10W		
R53			RK73FB2A101J	CHIP R 100 J 1/10W		
R54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R56			RK73FB2A151J	CHIP R 150 J 1/10W		
R57			RK73FB2A220J	CHIP R 22 J 1/10W		
R58			RK73FB2A750J	CHIP R 75 J 1/10W		
R59 ,60			RK73FB2A100J	CHIP R 10 J 1/10W		
R63			RK73FB2A470J	CHIP R 47 J 1/10W		
VR1			R12-8425-05	TRIMMING POT.(22K)		
D1			SVC212(2,3)	VARIABLE CAPACITANCE DIODE		
D2			1SV239	VARIABLE CAPACITANCE DIODE		
D3			DA204K	DIODE		
IC1			LMX1511TMX	ANALOGUE IC		
IC2			MRFIC2001R2	ANALOGUE IC		
IC3			TK11250AU	ANALOGUE IC		
IC4			NJM2058M	ANALOGUE IC		
IC5			74HCT7046AD	ANALOGUE IC		
IC6			NJM324M	ANALOGUE IC		
IC7			UPC2708T-E3	ANALOGUE IC		
IC8 ,9			UPC2748T-E3	ANALOGUE IC		
Q1			2SC3547A	TRANSISTOR		

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12

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Q3 ,4			2SA1576	TRANSISTOR		
<b>SURROUND UNIT (X08-2720-10)</b>						
C1 ,2			CC73FSL1H101J	CHIP C 100PF J		
C3 ,4			CQ93FMG1H162J	MYLAR 1600PF J		
C5 ,6			CQ93FMG1H123J	MYLAR 0.012UF J		
C9 ,10			CQ93FMG1H222J	MYLAR 2200PF J		
C11 ,12			CQ93FMG1H472J	MYLAR 4700PF J		
C13 ,14			CK73FB1H102K	CHIP C 1000PF K		
C15 ,16			CE04KW1H220M	ELECTRO 22UF 50WV		
C17 ,18			CK73FB1H102K	CHIP C 1000PF K		
C21 ,22			CC73FSL1H101J	CHIP C 100PF J		
C23			CQ93FMG1H162J	MYLAR 1600PF J		
C24			CQ93FMG1H363J	MYLAR 0.036UF J		
C25			CQ93FMG1H123J	MYLAR 0.012UF J		
C26			CQ93FMG1H513J	MYLAR 0.051UF J		
C29			CQ93FMG1H222J	MYLAR 2200PF J		
C30			CQ93FMG1H243J	MYLAR 0.024UF J		
C31 ,32			CQ93FMG1H472J	MYLAR 4700PF J		
C33 ,34			CK73FB1H102K	CHIP C 1000PF K		
C35 ,36			CE04KW1H220M	ELECTRO 22UF 50WV		
C37 ,38			CK73FB1H102K	CHIP C 1000PF K		
C41 ,42			CC73FSL1H101J	CHIP C 100PF J		
C43 ,44			CQ93FMG1H162J	MYLAR 1600PF J		
C45 ,46			CQ93FMG1H123J	MYLAR 0.012UF J		
C49 ,50			CQ93FMG1H222J	MYLAR 2200PF J		
C51 ,52			CQ93FMG1H562J	MYLAR 5600PF J		
C53 ,54			CK73FB1H102K	CHIP C 1000PF K		
C55 ,56			CE04KW1H100M	ELECTRO 10UF 50WV		
C57 ,58			CK73FB1H102K	CHIP C 1000PF K		
C61 -64			CF92FV1H224J	MF-C 0.22UF J		
C65 ,66			CC73FSL1H101J	CHIP C 100PF J		
C67 ,68			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C69 -74			CE04KW1E470M	ELECTRO 47UF 25WV		
C75 ,76			CK73FB1H102K	CHIP C 1000PF K		
C77 ,78			CE04KW1E470M	ELECTRO 47UF 25WV		
C79 -82			CK73FB1H102K	CHIP C 1000PF K		
C83 -88			CE04KW1E470M	ELECTRO 47UF 25WV		
C91 -94			CF92FV1H224J	MF-C 0.22UF J		
C95 ,96			CC73FSL1H101J	CHIP C 100PF J		
C97 -100			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C101 ,102			CC73FSL1H101J	CHIP C 100PF J		
C103-106			CE04KW1E470M	ELECTRO 47UF 25WV		
C107-110			CK73FB1H102K	CHIP C 1000PF K		
C111 ,112			CE04KW1E470M	ELECTRO 47UF 25WV		
C113 ,114			CC73FSL1H220J	CHIP C 22PF J		
C115 ,116			CC73FSL1H101J	CHIP C 100PF J		
C122			CE04KW1E470M	ELECTRO 47UF 25WV		
C123			CC73FSL1H101J	CHIP C 100PF J		
C124			CQ93FMG1H472J	MYLAR 4700PF J		
C126			CE04KW1E470M	ELECTRO 47UF 25WV		
C127			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C128			CC73FSL1H101J	CHIP C 100PF J		
C129			CE04KW1E470M	ELECTRO 47UF 25WV		
C130 ,131			CF92FV1H224J	MF-C 0.22UF J		

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13

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C132			CC73FSL1H101J	CHIP C	100PF	J
C133			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C134-137			CK73FB1H102K	CHIP C	1000PF	K
C142			CC73FSL1H101J	CHIP C	100PF	J
C143			CK73FB1H332K	CHIP C	3300PF	K
C144			CE04KW1H220M	ELECTRO	22UF	50WV
C145			CF92FV1H564J	MF-C	0.56UF	J
C146			CF92FV1H274J	MF-C	0.27UF	J
C147			CF92FV1H564J	MF-C	0.56UF	J
C148			CF92FV1H274J	MF-C	0.27UF	J
C149			CE04KW1H220M	ELECTRO	22UF	50WV
C150			CE04KW1H100M	ELECTRO	10UF	50WV
C151			CC73FSL1H101J	CHIP C	100PF	J
C152			CE04KW1E470M	ELECTRO	47UF	25WV
C153,154			CE04KW1H220M	ELECTRO	22UF	50WV
C155-162			CK73FB1H102K	CHIP C	1000PF	K
C163,164			CQ93FMG1H562J	MYLAR	5600PF	J
C165,166			CK73FF1E104Z	CHIP C	0.10UF	Z
C171			CE04KW1A101M	ELECTRO	100UF	10WV
C172			CK73FB1H102K	CHIP C	1000PF	K
C173			CK73FF1E104Z	CHIP C	0.10UF	Z
C175			C90-3270-05	ELECTRO	100UF	10WV
C176			CC73FSL1H101J	CHIP C	100PF	J
C177-180			CC73FSL1H220J	CHIP C	22PF	J
C181			CK73FB1H102K	CHIP C	1000PF	K
C182			CC73FSL1H470J	CHIP C	47PF	J
C191			C90-3270-05	ELECTRO	100UF	10WV
C192			CK73FB1H102K	CHIP C	1000PF	K
C193			CK73FF1E104Z	CHIP C	0.10UF	Z
C195			CE04KW1A101M	ELECTRO	100UF	10WV
C196			CK73FB1H102K	CHIP C	1000PF	K
C197-200			CC73FSL1H220J	CHIP C	22PF	J
C201			CK73FB1H102K	CHIP C	1000PF	K
C202			CC73FSL1H470J	CHIP C	47PF	J
C206-208			CK73FB1H102K	CHIP C	1000PF	K
C209-211			CE04KW1A101M	ELECTRO	100UF	10WV
C212			CK73FB1H102K	CHIP C	1000PF	K
C213			CK73FF1E104Z	CHIP C	0.10UF	Z
C214			CK73FB1H103K	CHIP C	0.010UF	K
C228,229			CC73FSL1H220J	CHIP C	22PF	J
C231			CE04KW1A101M	ELECTRO	100UF	10WV
C232,233			CK73FB1H102K	CHIP C	1000PF	K
C234			CC73FSL1H150J	CHIP C	15PF	J
C235			CF92FV1H105J	MF-C	1.0UF	J
C236			CK73FF1E104Z	CHIP C	0.10UF	Z
C237			CE04KW1A101M	ELECTRO	100UF	10WV
C238			CK73FB1H102K	CHIP C	1000PF	K
C239			CC73FSL1H101J	CHIP C	100PF	J
C240			CC73FSL1H220J	CHIP C	22PF	J
C241-246			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C247,248			CE04KW1H220M	ELECTRO	22UF	50WV
C249,250			CE04KW1A101M	ELECTRO	100UF	10WV
C251,252			CE04KW1E470M	ELECTRO	47UF	25WV
C253,254			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C255-258			CK73FF1E104Z	CHIP C	0.10UF	Z

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14

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C261-266			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C267,268			CE04KW1H220M	ELECTRO	22UF	50WV
C269,270			CE04KW1A101M	ELECTRO	100UF	10WV
C271,272			CE04KW1E470M	ELECTRO	47UF	25WV
C273,274			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C275-278			CK73FF1E104Z	CHIP C	0.10UF	Z
C279,280			CE04KW1E470M	ELECTRO	47UF	25WV
C281-286			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C287,288			CE04KW1H220M	ELECTRO	22UF	50WV
C289,290			CE04KW1A101M	ELECTRO	100UF	10WV
C291,292			CE04KW1E470M	ELECTRO	47UF	25WV
C293,294			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C295-298			CK73FF1E104Z	CHIP C	0.10UF	Z
C301,302			CE04KW1H220M	ELECTRO	22UF	50WV
C307,308			CC73FSL1H331J	CHIP C	330PF	J
C309,310			CE04KW1H100M	ELECTRO	10UF	50WV
C311,312			CQ93FMG1H152J	MYLAR	1500PF	J
C313-316			CK73FB1H102K	CHIP C	1000PF	K
C317			CE04KW1A101M	ELECTRO	100UF	10WV
C318			CK73FF1E104Z	CHIP C	0.10UF	Z
C319			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C320,321			CK73FB1H102K	CHIP C	1000PF	K
C322,323			CE04KW1H100M	ELECTRO	10UF	50WV
C324			CK73FF1E104Z	CHIP C	0.10UF	Z
C325			CK73FB1H102K	CHIP C	1000PF	K
C326-328			CC73FSL1H220J	CHIP C	22PF	J
C329			CE04KW1A101M	ELECTRO	100UF	10WV
C330			CK73FB1H102K	CHIP C	1000PF	K
C331			CE04KW1A101M	ELECTRO	100UF	10WV
C332			CK73FB1H102K	CHIP C	1000PF	K
C333			CK73FF1E104Z	CHIP C	0.10UF	Z
C334,335			CC73FCH1H050C	CHIP C	5.0PF	C
C336-338			CC73FSL1H220J	CHIP C	22PF	J
C339			CK73FB1H103K	CHIP C	0.010UF	K
C340			CK73FB1H102K	CHIP C	1000PF	K
C341			CE04KW1A101M	ELECTRO	100UF	10WV
C342			CK73FB1H102K	CHIP C	1000PF	K
C343			CE04KW1A101M	ELECTRO	100UF	10WV
C344,345			CK73FB1H103K	CHIP C	0.010UF	K
C346			CE04KW1A101M	ELECTRO	100UF	10WV
C347,348			CK73FF1E104Z	CHIP C	0.10UF	Z
C351-354			CC73FSL1H101J	CHIP C	100PF	J
C355			CK73FF1E104Z	CHIP C	0.10UF	Z
C356			CF92FV1H224J	MF-C	0.22UF	J
C357-359			CK73FF1E104Z	CHIP C	0.10UF	Z
C360			CK73FB1H103K	CHIP C	0.010UF	K
C361			CE04KW1A470M	ELECTRO	47UF	10WV
C362			CK73FB1H103K	CHIP C	0.010UF	K
C363			CE04KW1A470M	ELECTRO	47UF	10WV
C364			CK73FB1H103K	CHIP C	0.010UF	K
C365			CE04KW1A470M	ELECTRO	47UF	10WV
C366			CK73FB1H103K	CHIP C	0.010UF	K
C367			CE04KW1A470M	ELECTRO	47UF	10WV
C368			CK73FB1H103K	CHIP C	0.010UF	K
C369			CE04KW1A470M	ELECTRO	47UF	10WV

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# PARTS LIST

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15

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C370			CK73FB1H103K	CHIP C	0.010UF	K
C371-374			CC73FSL1H390J	CHIP C	39PF	J
C375			CK73FF1E104Z	CHIP C	0.10UF	Z
C376,377			CK73FB1H103K	CHIP C	0.010UF	K
C378-380			CC73FSL1H470J	CHIP C	47PF	J
C381			CK73FB1H103K	CHIP C	0.010UF	K
C382			CC73FSL1H470J	CHIP C	47PF	J
C383,384			CE04KW1A101M	ELECTRO	100UF	10WV
C385			CK73FF1E104Z	CHIP C	0.10UF	Z
C386			CE04KW1A101M	ELECTRO	100UF	10WV
C387			CK73FF1E104Z	CHIP C	0.10UF	Z
C388			CC73FSL1H221J	CHIP C	220PF	J
C389			CC73FSL1H101J	CHIP C	100PF	J
C391,392			CK73FB1H103K	CHIP C	0.010UF	K
C393,394			CF92FV1H474J	MF-C	0.47UF	J
C395			CE04HW1A470M	NP-ELEC	47UF	10WV
C396			CK73FB1H103K	CHIP C	0.010UF	K
C397,398			CE04KW1A101M	ELECTRO	100UF	10WV
C399			CC73FSL1H150J	CHIP C	15PF	J
C400,401			CE04KW1A101M	ELECTRO	100UF	10WV
C402-404			CK73FB1H103K	CHIP C	0.010UF	K
C405			CE04KW1A101M	ELECTRO	100UF	10WV
C406-408			CK73FB1H103K	CHIP C	0.010UF	K
C409			CE04KW1A101M	ELECTRO	100UF	10WV
C410-412			CK73FF1E104Z	CHIP C	0.10UF	Z
C413-415			CE04KW1A101M	ELECTRO	100UF	10WV
C416			CK73FB1H103K	CHIP C	0.010UF	K
C417,418			CC73FSL1H220J	CHIP C	22PF	J
C419			CC73FSL1H101J	CHIP C	100PF	J
C420			CC73FSL1H100D	CHIP C	10PF	D
C421			CC73FSL1H221J	CHIP C	220PF	J
C422			CK73FB1H102K	CHIP C	1000PF	K
C423			CK73FF1E104Z	CHIP C	0.10UF	Z
C424			CK73FB1H102K	CHIP C	1000PF	K
C425,426			CK73FF1E104Z	CHIP C	0.10UF	Z
C427			CK73FB1H103K	CHIP C	0.010UF	K
C428,429			CK73FF1E104Z	CHIP C	0.10UF	Z
C431-434			CC73FSL1H470J	CHIP C	47PF	J
C435-438			CC73FSL1H220J	CHIP C	22PF	J
C439			CE04KW1A101M	ELECTRO	100UF	10WV
C440			CK73FF1E104Z	CHIP C	0.10UF	Z
C441,442			CE04KW1A101M	ELECTRO	100UF	10WV
C443,444			CK73FF1E104Z	CHIP C	0.10UF	Z
C445,446			CE04KW1A471M	ELECTRO	470UF	10WV
C447-452			CE04KW1A101M	ELECTRO	100UF	10WV
C453,454			CE04KW1A471M	ELECTRO	470UF	10WV
C455,456			CC73FCH1H050C	CHIP C	5.0PF	C
C457,458			CC73FSL1H100D	CHIP C	10PF	D
C459,460			CC73FSL1H220J	CHIP C	22PF	J
C461			CK73FF1E104Z	CHIP C	0.10UF	Z
C462			CC73FSL1H221J	CHIP C	220PF	J
C463-466			CK73FF1E104Z	CHIP C	0.10UF	Z
C467			CK73FB1H103K	CHIP C	0.010UF	K
C468			CC73FSL1H220J	CHIP C	22PF	J
C469			CE04KW1A101M	ELECTRO	100UF	10WV

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16

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C501-522			CK73FF1E104Z	CHIP C	0.10UF	Z
C523			CK73FB1H102K	CHIP C	1000PF	K
C524			CE04KW1A101M	ELECTRO	100UF	10WV
C525			CK73FB1H102K	CHIP C	1000PF	K
C526			CE04KW1A101M	ELECTRO	100UF	10WV
C527			CK73FB1H102K	CHIP C	1000PF	K
C528			CK73FF1E104Z	CHIP C	0.10UF	Z
C529-531			CC73FSL1H220J	CHIP C	22PF	J
C532			CE04KW1A101M	ELECTRO	100UF	10WV
C533			CK73FB1H103K	CHIP C	0.010UF	K
C534-538			CK73FF1E104Z	CHIP C	0.10UF	Z
C539			CE04KW1A101M	ELECTRO	100UF	10WV
C541			CK73FF1E104Z	CHIP C	0.10UF	Z
C542			CK73FB1H102K	CHIP C	1000PF	K
C543			CK73FF1E104Z	CHIP C	0.10UF	Z
C544,545			CK73FB1H102K	CHIP C	1000PF	K
C546,547			CC73FSL1H221J	CHIP C	220PF	J
C548			CC73FSL1H470J	CHIP C	47PF	J
C549			CC73FSL1H220J	CHIP C	22PF	J
C550-552			CC73FSL1H470J	CHIP C	47PF	J
C553			CK73FB1H102K	CHIP C	1000PF	K
C554			CK73FF1E104Z	CHIP C	0.10UF	Z
C555			CE04KW1A101M	ELECTRO	100UF	10WV
C556			CK73FB1H102K	CHIP C	1000PF	K
C557			CK73FF1E104Z	CHIP C	0.10UF	Z
C558			C90-3270-05	ELECTRO	100UF	10WV
C559			CK73FF1E104Z	CHIP C	0.10UF	Z
C560			CK73FB1H102K	CHIP C	1000PF	K
C561			CK73FF1E104Z	CHIP C	0.10UF	Z
C562,563			CK73FB1H102K	CHIP C	1000PF	K
C564,565			CC73FSL1H221J	CHIP C	220PF	J
C566			CC73FSL1H470J	CHIP C	47PF	J
C567			CK73FB1H102K	CHIP C	1000PF	K
C568			CK73FF1E104Z	CHIP C	0.10UF	Z
C569			C90-3270-05	ELECTRO	100UF	10WV
C570			CK73FB1H102K	CHIP C	1000PF	K
C571			CK73FF1E104Z	CHIP C	0.10UF	Z
C572			CE04KW1A101M	ELECTRO	100UF	10WV
C573-579			CK73FB1H102K	CHIP C	1000PF	K
C581			CK73FB1H103K	CHIP C	0.010UF	K
C582-584			CE04KW1A101M	ELECTRO	100UF	10WV
C585			CK73FB1H103K	CHIP C	0.010UF	K
C586			CE04KW1A101M	ELECTRO	100UF	10WV
C587			CK73FB1H103K	CHIP C	0.010UF	K
C588			CE04KW1A101M	ELECTRO	100UF	10WV
C589			CK73FB1H103K	CHIP C	0.010UF	K
C590			CC73FSL1H220J	CHIP C	22PF	J
CN1			E40-4159-05	FLAT CABLE CONNECTOR		
CN2			E40-4293-05	FLAT CABLE CONNECTOR		
CN3			E40-4808-05	PIN ASSY		
J1,2			E63-0174-05	PHONO JACK		
J3			E63-0179-05	PHONO JACK		
L1			L79-0788-05	LC FILTER		
L11 -26			L92-0044-05	FERRITE CORE		

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17

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L31 -33 L41 L43 -52 L61 -66 L71 -76			L92-0044-05 L92-0044-05 L92-0044-05 L92-0044-05 L92-0044-05	FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE		
L81 -91 L101-118 L121,122 L131,132 X1			L92-0044-05 L92-0044-05 L92-0044-05 L92-0044-05 L77-2143-05	FERRITE CORE FERRITE CORE FERRITE CORE FERRITE CORE CRYSTAL RESONATOR(24.576MHZ(LC		
X2			L78-0267-05	RESONATOR (4.194MHZ)		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10			RK73FB2A432J RK73FB2A911J RK73FB2A101J RK73FB2A152J RK73FB2A821J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.3K 910 100 1.5K 820	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R11 ,12 R13 ,14 R15 -18 R21 ,22 R23			RK73FB2A103J RK73FB2A471J RK73FB2A473J RK73FB2A432J RK73FB2A911J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 470 47K 4.3K 910	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R24 R25 ,26 R27 R28 R29			RK73FB2A392J RK73FB2A101J RK73FB2A152J RK73FB2A392J RK73FB2A821J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.9K 100 1.5K 3.9K 820	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R31 R33 ,34 R41 ,42 R43 ,44 R45 ,46			RK73FB2A103J RK73FB2A471J RK73FB2A432J RK73FB2A911J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 470 4.3K 910 100	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R47 ,48 R49 ,50 R51 ,52 R53 ,54 R61 ,62			RK73FB2A152J RK73FB2A821J RK73FB2A103J RK73FB2A471J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.5K 820 10K 470 100K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R63 ,64 R65 ,66 R67 ,68 R81 ,82 R83 ,84			RK73FB2A133J RK73FB2A622J RK73FB2A104J RK73FB2A104J RK73FB2A133J	CHIP R CHIP R CHIP R CHIP R CHIP R	13K 6.2K 100K 100K 13K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R85 ,86 R87 ,88 R101,102 R103,104 R105,106			RK73FB2A622J RK73FB2A104J RK73FB2A104J RK73FB2A123J RK73FB2A203J	CHIP R CHIP R CHIP R CHIP R CHIP R	6.2K 100K 100K 12K 20K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R107,108 R109,110 R113,114 R115,116 R119,120			RK73FB2A123J RK73FB2A203J RK73FB2A123J RK73FB2A222J RK73FB2A222J	CHIP R CHIP R CHIP R CHIP R CHIP R	12K 20K 12K 2.2K 2.2K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R131 R132,133 R134			RK73FB2A104J RK73FB2A473J RK73FB2A622J	CHIP R CHIP R CHIP R	100K 47K 6.2K	J J J 1/10W 1/10W 1/10W

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18

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R135 R136 R137-142 R143 R144			RK73FB2A133J RK73FB2A472J RK73FB2A104J RK73FB2A753J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	13K 4.7K 100K 75K 4.7K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R145 R146 R147 R148 R149,150			RK73FB2A473J RK73FB2A104J RK73FB2A272J RK73FB2A473J RK73FB2A512J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 100K 2.7K 47K 5.1K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R151 R152,153 R154-159 R160,161 R162			RK73FB2A104J RK73FB2A512J RK73FB2A104J RK73FB2A472J RK73FB2A243J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 5.1K 100K 4.7K 24K	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R201-220 R221 R222 R223 R224			RK73FB2A470J RK73FB2A243J RK73FB2A621J RK73FB2A222J RK73FB2A221J	CHIP R CHIP R CHIP R CHIP R CHIP R	47 24K 620 2.2K 220	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R226 R227 R228 R229 R230-232			RK73FB2A470J RK73FB2A102J RK73FB2A470J RK73FB2A102J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	47 1.0K 47 1.0K 470	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
⚠ R233 ⚠ R234,235 ⚠ R237,238 ⚠ R240,241 ⚠ R242			RS14DB3D390J RS14DB3D470J RK73FB2A470J RS14DB3D470J RS14DB3D390J	FL-PROOF RS FL-PROOF RS CHIP R FL-PROOF RS FL-PROOF RS	39 47 47 47 39	J J J J J 2W 2W 1/10W 2W 2W
R243 R244 R251,252 R261,262 R267,268			RK73FB2A470J RS14DB3D390J RK73FB2A332J RK73FB2A242J RK73FB2A221J	CHIP R FL-PROOF RS CHIP R CHIP R CHIP R	47 39 3.3K 2.4K 220	J J J J J 1/10W 2W 1/10W 1/10W 1/10W
R269-272 R273 R274 R275 R276			RK73FB2A331J RK73FB2A512J RK73FB2A472J RK73FB2A511J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	330 5.1K 4.7K 510 470	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R277 R290 R291 R292 R293-297			RK73FB2A103J RK73FB2A471J RK73FB2A220J RK73FB2A105J RK73FB2A221J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 470 22 1.0M 220	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R298 R299 R300 R301 R302-304			RK73FB2A750J RK73FB2A150J RK73FB2A750J RK73FB2A331J RK73FB2A750J	CHIP R CHIP R CHIP R CHIP R CHIP R	75 15 75 330 75	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W
R305,306 R307,308 R310 R311-314 R315			RK73FB2A472J RK73FB2A471J RK73FB2A472J RK73FB2A103J RK73FB2A750J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 470 4.7K 10K 75	J J J J J 1/10W 1/10W 1/10W 1/10W 1/10W

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19

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R316,317			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R318			RK73FB2A681J	CHIP R 680 J 1/10W		
R319			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R320			RK73FB2A103J	CHIP R 10K J 1/10W		
R321			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R322			RK73FB2A103J	CHIP R 10K J 1/10W		
R323,324			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R325,326			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R327			RK73FB2A681J	CHIP R 680 J 1/10W		
R328			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R329			RK73FB2A103J	CHIP R 10K J 1/10W		
R330			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R331			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R332,333			RK73FB2A104J	CHIP R 100K J 1/10W		
R334			RK73FB2A103J	CHIP R 10K J 1/10W		
R335			RK73FB2A224J	CHIP R 220K J 1/10W		
R336			RK73FB2A821J	CHIP R 820 J 1/10W		
R337			RK73FB2A224J	CHIP R 220K J 1/10W		
R340			RK73FB2A121J	CHIP R 120 J 1/10W		
R341			RK73FB2A473J	CHIP R 47K J 1/10W		
R342			RK73FB2A101J	CHIP R 100 J 1/10W		
R350,351			RK73FB2A473J	CHIP R 47K J 1/10W		
R352-354			RK73FB2A103J	CHIP R 10K J 1/10W		
R355			RK73FB2A100J	CHIP R 10 J 1/10W		
R356-358			RK73FB2A103J	CHIP R 10K J 1/10W		
R360			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R362,363			RK73FB2A103J	CHIP R 10K J 1/10W		
R371			RK73FB2A333J	CHIP R 33K J 1/10W		
R372			RK73FB2A103J	CHIP R 10K J 1/10W		
R373			RK73FB2A243J	CHIP R 24K J 1/10W		
R374,375			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R376			RK73FB2A151J	CHIP R 150 J 1/10W		
R377-379			RK73FB2A101J	CHIP R 100 J 1/10W		
R380			RK73FB2A471J	CHIP R 470 J 1/10W		
R381-387			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R388-390			RK73FB2A563J	CHIP R 56K J 1/10W		
R391			RK73FB2A100J	CHIP R 10 J 1/10W		
R392,393			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R394-397			RK73FB2A470J	CHIP R 47 J 1/10W		
R398,399			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R401,402			RK73FB2A103J	CHIP R 10K J 1/10W		
R403,404			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R405			RK73FB2A101J	CHIP R 100 J 1/10W		
R406			RK73FB2A103J	CHIP R 10K J 1/10W		
R421-427			RK73FB2A470J	CHIP R 47 J 1/10W		
R428,429			RK73FB2A103J	CHIP R 10K J 1/10W		
R430			RS14DB3D270J	FL-PROOF RS 27 J 2W		
R431,432			RK73FB2A470J	CHIP R 47 J 1/10W		
R433-435			RS14DB3D270J	FL-PROOF RS 27 J 2W		
R436-439			RS14DB3D390J	FL-PROOF RS 39 J 2W		
R440-442			RK73FB2A471J	CHIP R 470 J 1/10W		
R443			RK73FB2A470J	CHIP R 47 J 1/10W		
R444,445			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R446-448			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R449			RS14DB3D270J	FL-PROOF RS 27 J 2W		

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20

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R451			RK73FB2A101J	CHIP R 100 J 1/10W		
R454-456			RK73FB2A101J	CHIP R 100 J 1/10W		
R459,460			RK73FB2A101J	CHIP R 100 J 1/10W		
R462-491			RK73FB2A101J	CHIP R 100 J 1/10W		
R492-529			RK73FB2A104J	CHIP R 100K J 1/10W		
R530			RK73FB2A223J	CHIP R 22K J 1/10W		
R531-558			RK73FB2A104J	CHIP R 100K J 1/10W		
R559-564			RK73FB2A101J	CHIP R 100 J 1/10W		
R565-582			RK73FB2A470J	CHIP R 47 J 1/10W		
R583,584			RK73FB2A103J	CHIP R 10K J 1/10W		
D1 -8			DAN202U	DIODE		
D10 -22			DAN202U	DIODE		
D23 ,24			U1BC44	DIODE		
D31			HZS8.2S(B2)	ZENER DIODE		
D31			RD8.2JS(B2)	ZENER DIODE		
D51 ,52			DAN202U	DIODE		
IC1 -9			NJM4580E	ANALOGUE IC		
IC11-16			NJM4580E	ANALOGUE IC		
IC17			TC9162AF	MOS-IC		
IC18			TC9163AF	MOS-IC		
IC21-26			PCM1702U	MOS-IC		
IC27-29			SM5841HS	MOS-IC		
IC30,31			KAN02	CUSTOM IC		
IC32			TC9246F	ANALOGUE IC		
IC33			TLC2932IPW	MOS-IC		
IC38			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC39,40			NJM4580E	ANALOGUE IC		
IC41,42			LC83015JE	MOS-IC		
IC43-46			LC32464P-80	MEMORY IC		
IC47			ZR38500-36	MOS-IC		
IC48,49			TC55B329J-12	MEMORY IC		
IC50			78P058GC1ACB	MI-COM IC		
IC51			NJM4580E	ANALOGUE IC		
IC52			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC61,62			M5238AL	IC(OP AMP X2)		
IC63			AK5340-VS	MOS-IC		
IC64			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC65			TC74HC74AF	IC(DUAL D-TYPE FLIP FLOP)		
IC66-68			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC69			TC74HC153AF	MOS-IC		
IC71			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC73			NJM4580E	ANALOGUE IC		
IC75			PD4606A	MOS-IC		
IC76			TC55329AJ-25	MEMORY IC		
IC76			TC55329AJ-35	MEMORY IC		
IC77			LC8904Q	MOS-IC		
IC78			TC74HC157AF	MOS-IC		
IC79			TC74HCU04AF	IC(HEX INVERTER SMD)		
△ IC80,81			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
△ IC80,81			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
△ IC82			TA79005S	IC(VOLTAGE REGULATOR/ -5V)		
△ IC82			UPC7905HF	IC(VOLTAGE REGULATOR/ -5V)		
△ IC83-85			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
△ IC83-85			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
Q1 ,2			2SC3940A(R,S)	TRANSISTOR		

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# PARTS LIST

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21

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q3 Q8 Q9 Q10 Q11 ,12			2SA1534A(R,S) 2SC1845(F,E) 2SA992(F,E) 2SD882 2SC1923(R,O)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q13 Q14 -16 Q17 ,18 Q19 Q19			2SA992(F,E) 2SC1923(R,O) 2SA992(F,E) DTA113ZS UN4119	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
△ Q21 △ Q21 △ Q22 ,23			2SD2012 2SD2061 2SC3940A(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR		
A1 -4 A5 A11 A12 A21			W02-1181-05 W02-1114-05 W02-2544-05 W02-2560-05 W02-2545-05	OPTIC RECEIVING MODULE OSCILLATING MODULE OSCILLATING MODULE OSCILLATING MODULE OSCILLATING MODULE		
<b>AUDIO UNIT (X09-4330-10)</b>						
C1 -6 C9 ,10 C11 ,12 C13 ,14 C15 ,16			CC73FSL1H101J CE04KW1V4R7M CE04KW1H2R2M CC73FSL1H270J CC73FSL1H101J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	100PF 4.7UF 2.2UF 27PF 100PF	J 35WV 50WV J J
C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 -28			CC73FSL1H470J CE04KW1V4R7M CE04KW1H100M CC73FSL1H270J CC73FSL1H101J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	47PF 4.7UF 10UF 27PF 100PF	J 35WV 50WV J J
C29 -32 C33 -36 C37 ,38 C41 ,42 C43 ,44			CE04KW1HR33M CQ93FMG1H223J CE04KW1H100M CE04KW1HR33M CE04KW1H010M	ELECTRO MYLAR ELECTRO ELECTRO ELECTRO	0.33UF 0.022UF 10UF 0.33UF 1.0UF	50WV J 50WV 50WV 50WV
C45 ,46 C47 ,48 C49 ,50 C61 ,62 C63 -68			CC73FSL1H270J CC73FSL1H101J CE04KW1V330M CC73FSL1H151J CC73FSL1H101J	CHIP C CHIP C ELECTRO CHIP C CHIP C	27PF 100PF 33UF 150PF 100PF	J J 35WV J J
C71 ,72 C73 ,74 C75 ,76 C77 ,78 C79 ,80			CE04KW1V4R7M CE04KW1H2R2M CC73FSL1H270J CC73FSL1H101J CC73FSL1H470J	ELECTRO ELECTRO CHIP C CHIP C CHIP C	4.7UF 2.2UF 27PF 100PF 47PF	35WV 50WV J J J
C81 ,82 C83 ,84 C85 ,86 C87 -90 C91 -94			CE04KW1V4R7M CE04KW1H100M CC73FSL1H270J CC73FSL1H101J CE04KW1HR33M	ELECTRO ELECTRO CHIP C CHIP C ELECTRO	4.7UF 10UF 27PF 100PF 0.33UF	35WV 50WV J J 50WV
C95 -98 C99 ,100 C105,106 C107,108 C109,110			CQ93FMG1H223J CE04KW1H010M CE04KW1H3R3M CC73FSL1H270J CC73FSL1H101J	MYLAR ELECTRO ELECTRO CHIP C CHIP C	0.022UF 1.0UF 3.3UF 27PF 100PF	J 50WV 50WV J J

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22

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C111,112 C113,114 C115-120 C123,124 C125,126			CE04KW1V330M CC73FSL1H151J CC73FSL1H101J CE04KW1V4R7M CE04KW1H2R2M	ELECTRO CHIP C CHIP C ELECTRO ELECTRO	33UF 150PF 100PF 4.7UF 2.2UF	35WV J J 35WV 50WV
C127,128 C129,130 C131,132 C133,134 C135,136			CC73FSL1H270J CC73FSL1H101J CC73FSL1H470J CE04KW1V4R7M CE04KW1H100M	CHIP C CHIP C CHIP C ELECTRO ELECTRO	27PF 100PF 47PF 4.7UF 10UF	J J J 35WV 50WV
C137,138 C139-142 C143-146 C147-150 C151,152			CC73FSL1H270J CC73FSL1H101J CE04KW1HR33M CQ93FMG1H223J CE04KW1H010M	CHIP C CHIP C ELECTRO MYLAR ELECTRO	27PF 100PF 0.33UF 0.022UF 1.0UF	J J 50WV J 50WV
C157,158 C159,160 C161,162 C163,164 C165,166			CE04KW1H3R3M CC73FSL1H270J CC73FSL1H101J CE04KW1V330M CC73FSL1H151J	ELECTRO CHIP C CHIP C ELECTRO CHIP C	3.3UF 27PF 100PF 33UF 150PF	50WV J J 35WV J
C167-172 C175,176 C177,178 C179,180 C181,182			CC73FSL1H101J CE04KW1V4R7M CE04KW1H2R2M CC73FSL1H270J CC73FSL1H101J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	100PF 4.7UF 2.2UF 27PF 100PF	J 35WV 50WV J J
C183,184 C185,186 C187-190 C191,192 C193,194			CC73FSL1H470J CE04KW1V4R7M CE04KW1H010M CC73FSL1H270J CC73FSL1H101J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	47PF 4.7UF 1.0UF 27PF 100PF	J 35WV 50WV J J
C195,196 C197,198 C221-226 C227-229 C230-233			CE04KW1V330M CC73FSL1H151J CK73FB1H103K CC73FSL1H221J CK73FB1H103K	ELECTRO CHIP C CHIP C CHIP C CHIP C	33UF 150PF 0.010UF 220PF 0.010UF	35WV J K J K
C234-236 C237,238 C241-246 C247-249 C250-253			CC73FSL1H221J CK73FB1H103K CK73FB1H103K CC73FSL1H221J CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	220PF 0.010UF 0.010UF 220PF 0.010UF	J K K J K
C254-256 C257-264 C265-267 C268-271 C272-274			CC73FSL1H221J CK73FB1H103K CC73FSL1H221J CK73FB1H103K CC73FSL1H221J	CHIP C CHIP C CHIP C CHIP C CHIP C	220PF 0.010UF 220PF 0.010UF 220PF	J K J K J
C275-282 C283-285 C286,287 C288 C289			CK73FB1H103K CC73FSL1H221J CK73FB1H103K CE04KW1H100M CE04KW1E470M	CHIP C CHIP C CHIP C ELECTRO ELECTRO	0.010UF 220PF 0.010UF 10UF 47UF	K J K 50WV 25WV
C293 C295-300 C301-308 C341-368 C369,370			CE04KW1E221M CE04KW1H100M CE04KW1E470M CC73FSL1H151J CC73FSL1H101J	ELECTRO ELECTRO ELECTRO CHIP C CHIP C	220UF 10UF 47UF 150PF 100PF	25WV 50WV 25WV J J

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23

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C371,372 C373-376 C377,378 C379,380 C381,382			CE04KW1H100M CK73FB1H102K CK73FB1H471K CE04KW0J331M CQ93FMG1H123J	ELECTRO 10UF 50WV CHIP C 1000PF K CHIP C 470PF K ELECTRO 330UF 6.3WV MYLAR 0.012UF J		
C383,384 C385,386 C387,388 C389,390 C391,392			CQ93FMG1H332J CE04KW1H100M CC73FSL1H101J CK73FB1H102K CE04KW1H100M	MYLAR 3300PF J ELECTRO 10UF 50WV CHIP C 100PF J CHIP C 1000PF K ELECTRO 10UF 50WV		
C393,394 C395,396 C397-400 C401,402 C403,404			CK73FB1H103K CE04KW1H100M CC73FSL1H101J CE04KW1H100M CC73FSL1H101J	CHIP C 0.010UF K ELECTRO 10UF 50WV CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 100PF J		
C405,406 C407,408 C409,410 C411,412 C413,414			CE04KW1H100M CC73FSL1H101J CE04KW1H100M CK73FB1H103K CE04KW1H100M	ELECTRO 10UF 50WV CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 0.010UF K ELECTRO 10UF 50WV		
C415-418 C419,420 C421,422 C423,424 C425,426			CC73FSL1H101J CE04KW1E101M CC73FSL1H101J CE04KW1H100M CC73FSL1H101J	CHIP C 100PF J ELECTRO 100UF 25WV CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 100PF J		
C427,428 C451,452 C453,454 C455-457 C458,459			CE04KW1H100M CE04KW1E470M CK73FB1H103K CC73FSL1H221J CK73FB1H103K	ELECTRO 10UF 50WV ELECTRO 47UF 25WV CHIP C 0.010UF K CHIP C 220PF J CHIP C 0.010UF K		
C460-462 C463,464 C465-470 C471-478 C501-506			CC73FSL1H221J CK73FB1H103K CC73FSL1H221J CE04KW1V220M CK73FB1H103K	CHIP C 220PF J CHIP C 0.010UF K CHIP C 220PF J ELECTRO 22UF 35WV CHIP C 0.010UF K		
C511 C512-515 C516-523 C524-535 C536-538			CE04KW1H100M CE04KW1E470M CC73FSL1H101J CE04KW1H100M CK73FB1H103K	ELECTRO 10UF 50WV ELECTRO 47UF 25WV CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 0.010UF K		
CN1 CN2 CN3 J1 -3 J4			E40-4914-05 E40-4906-05 E40-4293-05 E63-0070-15 E63-0047-15	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PHONO JACK PHONO JACK		
J5 J6			E63-0180-05 E63-0181-05	PHONO JACK PHONO JACK		
R1 ,2 R3 ,4 R5 ,6 R11 ,12 R13 ,14			RK73FB2A104J RK73FB2A223J RK73FB2A912J RK73FB2A244J RK73FB2A113J	CHIP R 100K J 1/10W CHIP R 22K J 1/10W CHIP R 9.1K J 1/10W CHIP R 240K J 1/10W CHIP R 11K J 1/10W		
R15 ,16 R17 ,18			RK73FB2A223J RK73FB2A104J	CHIP R 22K J 1/10W CHIP R 100K J 1/10W		

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24

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R19 ,20 R21 ,22 R23 ,24 R25 -28 R29 ,30			RK73FB2A244J RK73FB2A104J RK73FB2A222J RK73FB2A304J RK73FB2A563J	CHIP R 240K J 1/10W CHIP R 100K J 1/10W CHIP R 2.2K J 1/10W CHIP R 300K J 1/10W CHIP R 56K J 1/10W		
R31 ,32 R33 -40 R41 -44 R45 ,46 R47 ,48			RK73FB2A101J RK73FB2A562J RK73FB2A561J RK73FB2A114J RK73FB2A201J	CHIP R 100 J 1/10W CHIP R 5.6K J 1/10W CHIP R 560 J 1/10W CHIP R 110K J 1/10W CHIP R 200 J 1/10W		
R49 ,50 R51 ,52 R53 ,54 R55 ,56 R57 ,58			RK73FB2A512J RK73FB2A272J RK73FB2A132J RK73FB2A681J RK73FB2A201J	CHIP R 5.1K J 1/10W CHIP R 2.7K J 1/10W CHIP R 1.3K J 1/10W CHIP R 680 J 1/10W CHIP R 200 J 1/10W		
R59 ,60 R61 ,62 R63 ,64 R65 -68 R69 ,70			RK73FB2A512J RK73FB2A272J RK73FB2A132J RK73FB2A681J RK73FB2A132J	CHIP R 5.1K J 1/10W CHIP R 2.7K J 1/10W CHIP R 1.3K J 1/10W CHIP R 680 J 1/10W CHIP R 1.3K J 1/10W		
R71 ,72 R73 ,74 R75 ,76 R77 ,78 R79 ,80			RK73FB2A272J RK73FB2A201J RK73FB2A512J RK73FB2A201J RK73FB2A512J	CHIP R 2.7K J 1/10W CHIP R 200 J 1/10W CHIP R 5.1K J 1/10W CHIP R 200 J 1/10W CHIP R 5.1K J 1/10W		
R81 ,82 R83 ,84 R85 ,86 R87 -90 R91 ,92			RK73FB2A272J RK73FB2A132J RK73FB2A681J RK73FB2A105J RK73FB2A222J	CHIP R 2.7K J 1/10W CHIP R 1.3K J 1/10W CHIP R 680 J 1/10W CHIP R 1.0M J 1/10W CHIP R 2.2K J 1/10W		
R93 ,94 R95 ,96 R97 ,98 R99 ,100 R111,112			RK73FB2A162J RK73FB2A474J RK73FB2A682J RK73FB2A224J RK73FB2A151J	CHIP R 1.6K J 1/10W CHIP R 470K J 1/10W CHIP R 6.8K J 1/10W CHIP R 220K J 1/10W CHIP R 150 J 1/10W		
R113,114 R115,116 R117,118 R123,124 R125,126			RK73FB2A104J RK73FB2A223J RK73FB2A912J RK73FB2A244J RK73FB2A113J	CHIP R 100K J 1/10W CHIP R 22K J 1/10W CHIP R 9.1K J 1/10W CHIP R 240K J 1/10W CHIP R 11K J 1/10W		
R127,128 R129,130 R131,132 R133,134 R135,136			RK73FB2A223J RK73FB2A104J RK73FB2A244J RK73FB2A104J RK73FB2A101J	CHIP R 22K J 1/10W CHIP R 100K J 1/10W CHIP R 240K J 1/10W CHIP R 240K J 1/10W CHIP R 100 J 1/10W		
R137-140 R141,142 R143,144 R145-152 R153-156			RK73FB2A244J RK73FB2A563J RK73FB2A101J RK73FB2A562J RK73FB2A561J	CHIP R 240K J 1/10W CHIP R 56K J 1/10W CHIP R 100 J 1/10W CHIP R 5.6K J 1/10W CHIP R 560 J 1/10W		
R157,158 R159,160 R161,162 R163,164 R165,166			RK73FB2A201J RK73FB2A512J RK73FB2A272J RK73FB2A132J RK73FB2A681J	CHIP R 200 J 1/10W CHIP R 5.1K J 1/10W CHIP R 2.7K J 1/10W CHIP R 1.3K J 1/10W CHIP R 680 J 1/10W		

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25

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R167,168			RK73FB2A201J	CHIP R 200 J 1/10W		
R169,170			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R171,172			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R173,174			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R175-178			RK73FB2A681J	CHIP R 680 J 1/10W		
R179,180			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R181			RK73FB2A201J	CHIP R 200 J 1/10W		
R182			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R183			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R184,185			RK73FB2A201J	CHIP R 200 J 1/10W		
R186,187			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R188			RK73FB2A201J	CHIP R 200 J 1/10W		
R189			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R190			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R191,192			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R193,194			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R195,196			RK73FB2A681J	CHIP R 680 J 1/10W		
R199,200			RK73FB2A114J	CHIP R 110K J 1/10W		
R201,202			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R203,204			RK73FB2A162J	CHIP R 1.6K J 1/10W		
R205,206			RK73FB2A114J	CHIP R 110K J 1/10W		
R207,208			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R209,210			RK73FB2A224J	CHIP R 220K J 1/10W		
R211,212			RK73FB2A151J	CHIP R 150 J 1/10W		
R213,214			RK73FB2A104J	CHIP R 100K J 1/10W		
R215,216			RK73FB2A223J	CHIP R 22K J 1/10W		
R217,218			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R223,224			RK73FB2A244J	CHIP R 240K J 1/10W		
R225,226			RK73FB2A113J	CHIP R 11K J 1/10W		
R227,228			RK73FB2A223J	CHIP R 22K J 1/10W		
R229,230			RK73FB2A104J	CHIP R 100K J 1/10W		
R231,232			RK73FB2A244J	CHIP R 240K J 1/10W		
R233,234			RK73FB2A104J	CHIP R 100K J 1/10W		
R235,236			RK73FB2A101J	CHIP R 100 J 1/10W		
R237-240			RK73FB2A244J	CHIP R 240K J 1/10W		
R241,242			RK73FB2A563J	CHIP R 56K J 1/10W		
R243,244			RK73FB2A101J	CHIP R 100 J 1/10W		
R245-252			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R253-256			RK73FB2A561J	CHIP R 560 J 1/10W		
R257,258			RK73FB2A201J	CHIP R 200 J 1/10W		
R259,260			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R261,262			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R263,264			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R265,266			RK73FB2A681J	CHIP R 680 J 1/10W		
R267,268			RK73FB2A201J	CHIP R 200 J 1/10W		
R269,270			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R271,272			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R273,274			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R275-278			RK73FB2A681J	CHIP R 680 J 1/10W		
R279,280			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R281,282			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R283,284			RK73FB2A201J	CHIP R 200 J 1/10W		
R285,286			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R287,288			RK73FB2A201J	CHIP R 200 J 1/10W		
R289,290			RK73FB2A512J	CHIP R 5.1K J 1/10W		

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26

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R291,292			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R293,294			RK73FB2A132J	CHIP R 1.3K J 1/10W		
R295,296			RK73FB2A681J	CHIP R 680 J 1/10W		
R299,300			RK73FB2A114J	CHIP R 110K J 1/10W		
R301,302			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R303,304			RK73FB2A162J	CHIP R 1.6K J 1/10W		
R305,306			RK73FB2A114J	CHIP R 110K J 1/10W		
R307,308			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R309,310			RK73FB2A224J	CHIP R 220K J 1/10W		
R311,312			RK73FB2A151J	CHIP R 150 J 1/10W		
R313,314			RK73FB2A104J	CHIP R 100K J 1/10W		
R315,316			RK73FB2A223J	CHIP R 22K J 1/10W		
R317,318			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R323,324			RK73FB2A244J	CHIP R 240K J 1/10W		
R325,326			RK73FB2A113J	CHIP R 11K J 1/10W		
R327,328			RK73FB2A223J	CHIP R 22K J 1/10W		
R329,330			RK73FB2A104J	CHIP R 100K J 1/10W		
R331,332			RK73FB2A244J	CHIP R 240K J 1/10W		
R333,334			RK73FB2A104J	CHIP R 100K J 1/10W		
R335-338			RK73FB2A334J	CHIP R 330K J 1/10W		
R339,340			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R341,342			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R343,344			RK73FB2A334J	CHIP R 330K J 1/10W		
R345,346			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R347,348			RK73FB2A224J	CHIP R 220K J 1/10W		
R349,350			RK73FB2A151J	CHIP R 150 J 1/10W		
R371-391			RK73FB2A101J	CHIP R 100 J 1/10W		
R392			RK73FB2A104J	CHIP R 100K J 1/10W		
R393			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R394			RK73FB2A223J	CHIP R 22K J 1/10W		
R395			RK73FB2A681J	CHIP R 680 J 1/10W		
R405			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R406			RK73FB2A103J	CHIP R 10K J 1/10W		
R408			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R409			RK73FB2A103J	CHIP R 10K J 1/10W		
R411			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R412			RK73FB2A103J	CHIP R 10K J 1/10W		
R414			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R415			RK73FB2A103J	CHIP R 10K J 1/10W		
R417			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R418			RK73FB2A103J	CHIP R 10K J 1/10W		
R420			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R421			RK73FB2A103J	CHIP R 10K J 1/10W		
R451,452			RK73FB2A331J	CHIP R 330 J 1/10W		
R453,454			RK73FB2A474J	CHIP R 470K J 1/10W		
R455,456			RK73FB2A331J	CHIP R 330 J 1/10W		
R457,458			RK73FB2A224J	CHIP R 220K J 1/10W		
R459,460			RK73FB2A331J	CHIP R 330 J 1/10W		
R461,462			RK73FB2A474J	CHIP R 470K J 1/10W		
R463,464			RK73FB2A331J	CHIP R 330 J 1/10W		
R465,466			RK73FB2A224J	CHIP R 220K J 1/10W		
R467,468			RK73FB2A331J	CHIP R 330 J 1/10W		
R469,470			RK73FB2A474J	CHIP R 470K J 1/10W		
R471,472			RK73FB2A331J	CHIP R 330 J 1/10W		
R473,474			RK73FB2A224J	CHIP R 220K J 1/10W		

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27

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R475,476 R477,478 R479,480 R481,482 R483,484			RK73FB2A331J RK73FB2A224J RK73FB2A331J RK73FB2A224J RK73FB2A331J	CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 330 J 1/10W		
R485,486 R487,488 R489,490 R491,492 R493,494			RK73FB2A224J RK73FB2A331J RK73FB2A224J RK73FB2A331J RK73FB2A474J	CHIP R 220K J 1/10W CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 330 J 1/10W CHIP R 470K J 1/10W		
R495,496 R497,498 R499,500 R501,502 R503,504			RK73FB2A331J RK73FB2A224J RK73FB2A331J RK73FB2A474J RK73FB2A331J	CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 330 J 1/10W CHIP R 470K J 1/10W CHIP R 330 J 1/10W		
R505,506 R507,508 R509,510 R511,512 R513,514			RK73FB2A224J RK73FB2A102J RK73FB2A473J RK73FB2A101J RK73FB2A102J	CHIP R 220K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W		
R515,516 R517,518 R519,520 R521,522 R523,524			RK73FB2A331J RK73FB2A274J RK73FB2A223J RK73FB2A333J RK73FB2A331J	CHIP R 330 J 1/10W CHIP R 270K J 1/10W CHIP R 22K J 1/10W CHIP R 33K J 1/10W CHIP R 330 J 1/10W		
R525,526 R527,528 R531,532 R533,536 R537,538			RK73FB2A104J RK73FB2A331J RK73FB2A224J RK73FB2A104J RK73FB2A331J	CHIP R 100K J 1/10W CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 100K J 1/10W CHIP R 330 J 1/10W		
R539,540 R541,542 R545,546 R547,548 R549,552			RK73FB2A224J RK73FB2A104J RK73FB2A331J RK73FB2A224J RK73FB2A104J	CHIP R 220K J 1/10W CHIP R 100K J 1/10W CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 100K J 1/10W		
R553,554 R555,556 R557,558 R559,560 R561,562			RK73FB2A331J RK73FB2A224J RK73FB2A104J RK73FB2A152J RK73FB2A122J	CHIP R 330 J 1/10W CHIP R 220K J 1/10W CHIP R 100K J 1/10W CHIP R 1.5K J 1/10W CHIP R 1.2K J 1/10W		
R563,564 R565,566 R567,568 R601,602 R603,604			RK73FB2A102J RK73FB2A392J RK73FB2A224J RD14NB2E820J RK73FB2A392J	CHIP R 1.0K J 1/10W CHIP R 3.9K J 1/10W CHIP R 220K J 1/10W RD 82 J 1/4W CHIP R 3.9K J 1/10W		
R605,606 R607,618 R651,658 R659,660 R661,662			RK73FB2A363J RK73FB2A101J RK73FB2A104J RK73FB2A102J RK73FB2A302J	CHIP R 36K J 1/10W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 3.0K J 1/10W		
R663,664 R665,666 R667,668 R669,670 R681			RK73FB2A102J RK73FB2A302J RK73FB2A102J RK73FB2A302J RK73FB2A823J	CHIP R 1.0K J 1/10W CHIP R 3.0K J 1/10W CHIP R 1.0K J 1/10W CHIP R 3.0K J 1/10W CHIP R 82K J 1/10W		

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28

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R683 R701 R702 R703,704 R705,706			RK73FB2A104J RK73FB2A202J RK73FB2A302J RK73FB2A103J RK73FB2A132J	CHIP R 100K J 1/10W CHIP R 2.0K J 1/10W CHIP R 3.0K J 1/10W CHIP R 10K J 1/10W CHIP R 1.3K J 1/10W		
R707 R708 R709 R710 R711,712			RK73FB2A243J RK73FB2A103J RK73FB2A123J RK73FB2A132J RK73FB2A103J	CHIP R 24K J 1/10W CHIP R 10K J 1/10W CHIP R 12K J 1/10W CHIP R 1.3K J 1/10W CHIP R 10K J 1/10W		
R713,714 R715,716 R717,718			RK73FB2A132J RK73FB2A103J RK73FB2A132J	CHIP R 1.3K J 1/10W CHIP R 10K J 1/10W CHIP R 1.3K J 1/10W		
K1 -6			S76-0027-05	MAGNETIC RELAY		
D1 ,2 D4 -11 D21 -31 D32 -35 D36 -38			DAN202U DAN202U DA204U U1BC44 DA204U	DIODE DIODE DIODE DIODE DIODE		
IC1 ,2 IC3 IC4 ,5 IC6 IC7 ,8			NJM4580E TC9212F NJM4580E TC9212F NJM4580E	ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC ANALOGUE IC		
IC9 IC10,11 IC12 IC13 IC14			TC9212F NJM4580E TC9212F NJM4580E TC9274F-009	MOS-IC ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC		
IC15 IC16 IC17 IC18 IC19			NJM4580E TC9274F-009 NJM4580E TC9274F-009 NJM4580E	ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC ANALOGUE IC		
IC21-28 IC29 IC30 IC31 IC32			NJM4580E TC9162AF TC9164AF TC9163AF TC9164AF	ANALOGUE IC MOS-IC MOS-IC MOS-IC MOS-IC		
IC33-35 IC37 IC37 IC38 IC38			LC4966 TA79015S UPC7915HF TA7815S UPC7815AHF	IC(CMOS LOGIC BILATERAL SW) IC(VOLTAGE REGULATOR/ -15V) IC(VOLTAGE REGULATOR/ -15V) IC(VOLTAGE REGULATOR/ +15V) IC(VOLTAGE REGULATOR/ +15V)		
Q3 ,4 Q7 ,8 Q11 ,12 Q15 ,16 Q41			2SC2878(B) 2SC2878(B) 2SC2878(B) 2SC2878(B) DTC143TS	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q41 Q42 Q42 Q43 Q43			UN4216 DTA124ES UN4112 DTC143TS UN4216	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

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29

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Q44 Q44 Q52 -57 Q70 Q71			DTA124ES UN4112 2SC2003(L,K) 2SA1534A(R,S) 2SC3940A(R,S)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q72 Q72 Q73 Q73 Q74 Q74			DTC124ES UN4212 DTC143TS UN4216 DTA124ES	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q74			UN4112	DIGITAL TRANSISTOR		
<b>DISPLAY UNIT (X14-4150-XX)</b>						
D51 -59 D60 D61 ,62 D63 D64 ,65		Än	B30-2479-05 B30-2463-05 B30-1291-05 B30-2463-05 B30-0432-05	LED(BLUE) LED LED LED LED(LN31GCPH(U))		
D66			B30-2463-05	LED		
C1 ,2 C3 -8 C9 C10 C11			CC45FSL1H470J C91-0737-05 CE04KW1A101M CK45FF1H103Z CE04KW1A101M	CERAMIC 47PF J CERAMIC 47PF J ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV		
C12 C13 ,14 C15 C16 ,17 C18			CK45FF1H103Z CE04KW1C330M CE04KW1A101M CK45FF1H103Z CE04KW1A101M	CERAMIC 0.010UF Z ELECTRO 33UF 16WV ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV		
C19 C20 ,21 C22 C23 C24			CK45FF1H103Z CE04KW1A101M CK45FF1H103Z CE04KW1C330M CE04KW1A101M	CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 33UF 16WV ELECTRO 100UF 10WV		
C25 C26 C27 C28 C29			CK45FF1H103Z CE04KW1A101M CK45FF1H103Z CE04KW1A101M CK45FF1H103Z	CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z		
C30 C31 C32 C33 C34			CE04KW1A101M CK45FF1H103Z CE04KW1A101M CK45FF1H103Z CE04KW1A101M	ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV		
C35 ,36 C37 C38 C39 C40 ,41			CK45FF1H103Z CE04KW1A101M CK45FF1H103Z CE04KW1A101M CC45FSL1H470J	CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 47PF J		
C42 -47 C48 C49 C51 C52			CK45FB1H471K CC45FSL1H221J C91-0737-05 CK45FF1H103Z C90-3222-05	CERAMIC 470PF K CERAMIC 220PF J CERAMIC 47PF J CERAMIC 0.010UF Z ELECTRO 100UF 10WV		

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30

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C53 C54 C55 C56 C57			CK45FB1H102K CK45FF1H472Z C90-3222-05 CK45FF1H103Z CK45FB1H102K	CERAMIC 1000PF K CERAMIC 4700PF Z ELECTRO 100UF 10WV CERAMIC 0.010UF Z CERAMIC 1000PF K		
C58 C59 ,60 C61 -69 C70 -73 C101,102			CK45FF1H472Z CK45FF1H103Z C91-0757-05 CK45FB1H102K CC45FSL1H101J	CERAMIC 4700PF Z CERAMIC 0.010UF Z CERAMIC 1000PF K CERAMIC 1000PF K CERAMIC 100PF J		
C103,104 C105,106 C107,108 C109,110 C111,112			C90-3253-05 C90-3232-05 CK45FF1H103Z C90-3232-05 CK45FB1H102K	ELECTRO 1.0UF 50WV ELECTRO 4.7UF 25WV CERAMIC 0.010UF Z ELECTRO 4.7UF 25WV CERAMIC 1000PF K		
C113,114 C115,116 C117 Δ C151,152 C153			CE04KW1C330M CC45FSL1H221J CK45FB1H102K C91-1488-05 CE04KW1H4R7M	ELECTRO 33UF 16WV CERAMIC 220PF J CERAMIC 1000PF K MF 6800PF 250VAC ELECTRO 4.7UF 50WV		
Δ C154			C91-1488-05	MF 6800PF 250VAC		
CN1 ,2 CN3 CN4 CN5 CN6			E40-4607-05 E40-4295-05 E40-4808-05 E40-3268-05 E40-4396-05	PIN ASSY FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY		
CN7 CN8 CN15 J1 -3 J4 ,5			E40-4245-05 E40-4293-05 E40-4293-05 E63-0094-05 E56-0011-05	PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PHONO JACK CYLINDRICAL RECEPTACLE		
J6 J7 J8 Δ J11 Δ J11			E58-0013-05 E56-0012-05 E63-0129-05 E03-0112-05 E03-0131-05	RECTANGULAR RECEPTACLE CYLINDRICAL RECEPTACLE PHONO JACK AC OUTLET AC OUTLET		K M
J13			E11-0188-05	MINIATURE PHONE JACK(2P)		
Δ F1 Δ F1 ,2			F05-4028-05 F05-1222-05	FUSE (UL) (125V 4A) FUSE (SEMKO) (250V T1.25A L)		K M
CN9 -12 CN11,12			J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP		M K
Δ R152			R92-1769-05	CARBON 3.3M J 1/2W		K
Δ K1 S1 -12 Δ S14 Δ S15			S76-0009-05 S70-0031-05 S40-1149-05 S62-0001-05	MAGNETIC RELAY TACT SWITCH PUSH SWITCH (POWER TYPE) SLIDE SWITCH		M
S13			T99-0546-05	ROTARY ENCODER		
D1 -48 D1 -48 D67 -69 D67 -69			HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE		

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31

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D71 -83 D71 -83 D101-106 D101-106 D151			HZS5.1N(B2) RD5.1ES(B2) HSS104 1SS133 HSS104	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D151 IC1 IC2 IC3 -7 IC8			1SS133 TC4051BP TC4052BP NJM2279D NJU3713D	DIODE IC(8CH MPX/ DE-MPX) IC(4CH MPX/DE-MPX) IC(VIDEO IC) MOS-IC		
IC9 IC10 Q1 -3 Q1 -3 Q4 ,5			NJU3711D NJM4580L-D DTC113ZS UN4219 2SC2458(Y,GR)	IC(8BIT I/O EXPANDER) IC(OP AMP X2) DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q4 ,5 Q6 -9 Q6 -9 Q10 ,11 Q10 ,11			2SC3311A(Q,R) DTC113ZS UN4219 DTA113ZS UN4119	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q12 Q13 ,14 Q13 ,14			2SC2003(L,K) DTA113ZS UN4119	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

## LCD REMOTE CONTROLLER UNIT (X25-5690-10)

C1 C2 C3 C4 C5			C92-0509-05 CC73FSL1H101J CK73EB1H104K CK73FB1H102K CC73FCH1H120J	CHIP-TAN CHIP C CHIP C CHIP C CHIP C	10UF 100PF 0.10UF 1000PF 12PF	6.3WV J K K J
C6 ,7 C8 C9 C10 C11			CC73FSL1H101J CC73FCH1H820J CK73FB1H473K CK73FB1H472K CK73FB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 82PF 0.047UF 4700PF 1000PF	J J K K K
C12 C13 C14 C15 C16			CC73FUJ1H020C CC73FSL1H101J CC73FUJ1H030C CC73FCH1H1R5C CC73FCH1H030C	CHIP C CHIP C CHIP C CHIP C CHIP C	2.0PF 100PF 3.0PF 1.5PF 3.0PF	C J C C C
C17 C18 ,19 C20 C21 C22 ,23			CK73FB1H102K CC73FCH1H010C CK73FB1H153K CC73FSL1H151J CC73FSL1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 1.0PF 0.015UF 150PF 100PF	K K K J J
C24 C25 C26 C27 -29 C30			CK73FB1H102K C92-0509-05 CK73FB1H333K CC73FSL1H101J CK73FB1H102K	CHIP C CHIP-TAN CHIP C CHIP C CHIP C	1000PF 10UF 0.033UF 100PF 1000PF	K 6.3WV K J K
C31 C32 -34 C35 C36 C38 -41			C92-0509-05 CK73EB1H104K C92-0505-05 CK73EB1C474K CC73FSL1H151J	CHIP-TAN CHIP C CHIP-TAN CHIP C CHIP C	10UF 0.10UF 10UF 0.47UF 150PF	6.3WV K 16WV K J

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32

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C42 C43 C44 C45 C46		Äñ	C92-0509-05 CK73FB1H102K C93-0030-05 CK73FB1H333K CC73FSL1H221J	CHIP-TAN CHIP C CHIP C CHIP C CHIP C	10UF 1000PF 0.01UF 0.033UF 220PF	6.3WV K J K J
C47 C48 C49 C50 C51 -53			CK73FB1H103K CK73FB1H223K CK73FB1H473K C92-0509-05 CC73FSL1H101J	CHIP C CHIP C CHIP C CHIP-TAN CHIP C	0.010UF 0.022UF 0.047UF 10UF 100PF	K K K 6.3WV J
C71 C72 C101 C102 C103			CC73FCH1H060D CC73FCH1H330J CC73FSL1H471J CK73FB1H103K C92-0505-05	CHIP C CHIP C CHIP C CHIP C CHIP-TAN	6.0PF 33PF 470PF 0.010UF 10UF	D J J K 16WV
C104,105 C106 C107 C109 C110			CK73EB1H104K C92-0509-05 C92-0031-05 CK73EB1H104K C91-1535-05	CHIP C CHIP-TAN CHIP-ELE CHIP C CHIP C	0.10UF 10UF 22UF 0.10UF 39PF	K 6.3WV 35WV K J
C111,112 C113 C114 C115,116 C117			CK73EB1H104K C92-0505-05 CC73FCH1H330J CK73FB1H473K C92-0031-05	CHIP C CHIP-TAN CHIP C CHIP C CHIP-ELE	0.10UF 10UF 33PF 0.047UF 22UF	K 16WV J K 35WV
C118-121 C122,123 C124,130 C131,132 C133,134			CK73EB1H104K CC73FCH1H200J CK73EB1H104K CK73FB1H102K CC73FCH1H200J	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 20PF 0.10UF 1000PF 20PF	K J K K J
C135,136 C137,138 C139,140 C141-143 C144			CK73FF1C224Z CK73EB1H104K C92-0509-05 CK73EB1H104K C92-0509-05	CHIP C CHIP C CHIP-TAN CHIP C CHIP-TAN	0.22UF 0.10UF 10UF 0.10UF 10UF	Z K 6.3WV K 6.3WV
C145-147 TC1 TC2 TC3		Äñ Äñ Äñ	CK73EB1H104K C05-0233-05 C05-0228-05 C05-0229-05	CHIP C CERAMIC TRIMMER CAPACITOR(5-20) C TRIMMER CERAMIC TRIMMER CAPACITOR(2-6P)	0.10UF 1.4-3.0PF	K K K
CN2 CN3 CN4 CN5 CN101		Äñ Äñ Äñ Äñ Äñ	E40-9814-05 E40-9815-05 E40-9939-05 E40-9370-05 E02-0015-05	PIN ASSY PIN ASSY FLAT CABLE CONNECTOR PIN ASSY IC SOCKET (IC105)		
E1			J11-0808-05	WIRE CLAMPER		
L1 L2 L4 L5 L6		Äñ Äñ Äñ Äñ Äñ	L33-1273-05 L40-6865-35 L40-1075-35 L33-1274-05 L40-1875-35	SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(6.8NH) SMALL FIXED INDUCTOR(10NH) SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(18NH)		
L101 L102 L103 L104		Äñ Äñ Äñ Äñ	L90-0069-05 L19-0080-05 L19-0078-05 L19-0079-05	COIL TRANSFORMER FOR CONVERTER TRANSFORMER FOR CONVERTER TRANSFORMER FOR CONVERTER		

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X1		Äñ	L77-2164-05	CRYSTAL RESONATOR(12.6MHZ)		
X101		Äñ	L77-2163-05	CRYSTAL RESONATOR(16.667M		
X102		Äñ	L77-2162-05	CRYSTAL RESONATOR(10.000M		
CP101,102		Äñ	R90-0950-05	C MULTI-COM 47 J 1/10W		
CP103		Äñ	R90-0951-05	MULTIPLE RESISTOR		
CP104-106		Äñ	R90-0950-05	C MULTI-COM 47 J 1/10W		
R1_2			RK73FB2A103J	CHIP R 10K J 1/10W		
R3			RK73FB2A151J	CHIP R 150 J 1/10W		
R4 -6			RK73FB2A104J	CHIP R 100K J 1/10W		
R7			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R8			RK73FB2A103J	CHIP R 10K J 1/10W		
R9			RK73FB2A331J	CHIP R 330 J 1/10W		
R10			RK73FB2A103J	CHIP R 10K J 1/10W		
R11			RK73FB2A271J	CHIP R 270 J 1/10W		
R12			RK73FB2A470J	CHIP R 47 J 1/10W		
R13			RK73FB2A390J	CHIP R 39 J 1/10W		
R14			RK73FB2A220J	CHIP R 22 J 1/10W		
R15			RK73FB2A103J	CHIP R 10K J 1/10W		
R16			RK73FB2A101J	CHIP R 100 J 1/10W		
R17			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R18 ,19			RK73FB2A103J	CHIP R 10K J 1/10W		
R20			RK73FB2A331J	CHIP R 330 J 1/10W		
R21			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R22			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R23			RK73FB2A100J	CHIP R 10 J 1/10W		
R24			RK73FB2A181J	CHIP R 180 J 1/10W		
R25 ,26			RK73FB2A103J	CHIP R 10K J 1/10W		
R27			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R28			RK73FB2A274J	CHIP R 270K J 1/10W		
R29			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R30			RK73FB2A184J	CHIP R 180K J 1/10W		
R31			RK73FB2A473J	CHIP R 47K J 1/10W		
R32			RK73FB2A101J	CHIP R 100 J 1/10W		
R33			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R34			RK73FB2A273J	CHIP R 27K J 1/10W		
R35			RK73FB2A183J	CHIP R 18K J 1/10W		
R36			RK73FB2A151J	CHIP R 150 J 1/10W		
R37 ,38			RK73FB2A274J	CHIP R 270K J 1/10W		
R39			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R40			RK73FB2A114J	CHIP R 110K J 1/10W		
R41 ,42			RK73FB2A104J	CHIP R 100K J 1/10W		
R43			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R44			RK73FB2A183J	CHIP R 18K J 1/10W		
R45			RK73FB2A224J	CHIP R 220K J 1/10W		
R46			RK73FB2A101J	CHIP R 100 J 1/10W		
R47			RK73FB2A103J	CHIP R 10K J 1/10W		
R48			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R49			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R50			RK73FB2A101J	CHIP R 100 J 1/10W		
R51			RK73FB2A183J	CHIP R 18K J 1/10W		
R52			RK73FB2A103J	CHIP R 10K J 1/10W		
R53			RK73FB2A750J	CHIP R 75 J 1/10W		
R54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55			RK73FB2A243J	CHIP R 24K J 1/10W		

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R56			RK73FB2A151J	CHIP R 150 J 1/10W		
R57			RK73FB2A100J	CHIP R 10 J 1/10W		
R58			RK73FB2A101J	CHIP R 100 J 1/10W		
R59			RK73FB2A100J	CHIP R 10 J 1/10W		
R60			RK73FB2A470J	CHIP R 47 J 1/10W		
R101,102			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R103			RK73FB2A103J	CHIP R 10K J 1/10W		
R104			RN73FH2A104D	CHIP R 100K D 1/10W		
R105			RN73FH2A105D	CHIP R 1.0M D 1/10W		
R106,107			RN73FH2A104D	CHIP R 100K D 1/10W		
R108		Äñ	R92-1832-05	METAL GLAZE 22 J 1W		
R109			RK73FB2A104J	CHIP R 100K J 1/10W		
R110			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R111,112			RK73FB2A1R0J	CHIP R 1.0 J 1/10W		
R113			RK73FB2A104J	CHIP R 100K J 1/10W		
R114			RK73FB2A223J	CHIP R 22K J 1/10W		
R115			RK73FB2A393J	CHIP R 39K J 1/10W		
R116			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R117			RK73FB2A1R0J	CHIP R 1.0 J 1/10W		
R118,119			RK73FB2A204J	CHIP R 200K J 1/10W		
R120			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R121			RK73FB2A204J	CHIP R 200K J 1/10W		
R123			RK73FB2A100J	CHIP R 10 J 1/10W		
R125			RK73FB2A100J	CHIP R 10 J 1/10W		
R127			RK73FB2A473J	CHIP R 47K J 1/10W		
R128-131			RK73FB2A103J	CHIP R 10K J 1/10W		
R132-134			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R135,136			RK73FB2A104J	CHIP R 100K J 1/10W		
R137-142			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R143-145			RK73FB2A223J	CHIP R 22K J 1/10W		
R150,151			RK73FB2A103J	CHIP R 10K J 1/10W		
R152			RN73FH2A223D	CHIP R 22K D 1/10W		
R153			RN73FH2A103D	CHIP R 10K D 1/10W		
R154			RK73FB2A624J	CHIP R 620K J 1/10W		
R155			RK73FB2A564J	CHIP R 560K J 1/10W		
⚠ R156		Äñ	R92-1831-05	FUSE RESIST 0.2 J 1/10W		
R157,158			RN73FH2A104D	CHIP R 100K D 1/10W		
R159			RN73FH2A202D	CHIP R 2.0K D 1/10W		
R160			RN73FH2A751D	CHIP R 750 D 1/10W		
R161			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R162			RK73FB2A473J	CHIP R 47K J 1/10W		
R163			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R164			RK73FB2A104J	CHIP R 100K J 1/10W		
R165			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R166			RK73FB2A1R0J	CHIP R 1.0 J 1/10W		
VR1			R12-8425-05	TRIMMING POT.(22K)		
S101-104			S70-0815-05	TACT SWITCH		
BZ101		Äñ	T95-0142-05	PIEZOELECTRIC VIBRATOR		
D1		Äñ	SVC212(2,3)	VARIABLE CAPACITANCE DIODE		
D2			1S239	VARIABLE CAPACITANCE DIODE		
D3			DA204K	DIODE		
D101,102			DA204K	DIODE		
D103-107			RB160L-40	DIODE		

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35

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D108			RB411D	DIODE		
IC1			LMX1511TMX	ANALOGUE IC		
IC2		Äñ	MRFIC2001R2	ANALOGUE IC		
IC3		Äñ	TK11250AU	ANALOGUE IC		
IC4			NJM2058M	ANALOGUE IC		
IC5		Äñ	74HCT7046AD	ANALOGUE IC		
IC6		Äñ	NJM324M	ANALOGUE IC		
IC7		Äñ	UPC2708T-E3	ANALOGUE IC		
IC8, 9		Äñ	UPC2748T-E3	ANALOGUE IC		
IC101		Äñ	TK11250AU	ANALOGUE IC		
IC102		Äñ	ML4876CR	ANALOGUE IC		
IC103		Äñ	MM1134BFFE	ANALOGUE IC		
IC104		Äñ	HM62256BLFP8SL	MEMORY IC		
IC105		Äñ	27C40961AAC	MEMORY IC		
IC106		Äñ	MC68307PU16V	MI-COM IC		
IC107			SED1330FBA	DI BI-POLAR IC		
IC108		Äñ	HM62256BLFP8SL	MEMORY IC		
IC109		Äñ	PCF8591T	DI BI-POLAR IC		
IC110		Äñ	S-80727AN-DQ	ANALOGUE IC		
Q1		Äñ	2SC3547A	TRANSISTOR		
Q3, 4			2SA1576	TRANSISTOR		
Q101,102		Äñ	2SK1719	FET		
Q103		Äñ	MMDF2N02ER2	DUAL FET		
Q104		Äñ	2SK1062	FET		
Q105		Äñ	2SK1719	FET		
Q106,107			2SA1576	TRANSISTOR		
BA101		Äñ	W09-1230-05	BATTERY		

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# SPECIFICATIONS

Note : Due to product upgrades, specifications may change without notice.

## Pre amp section

Total harmonic distortion:

All channels except for Subwoofer channel	0.003% (1 kHz, 1.0 volt)
	0.003% (20 Hz ~ 20 kHz, 1.0 volt)
Subwoofer	0.05% (31.5 Hz, 1.0 volt)

Frequency response

All inputs except for phono input	6 Hz ~ 100 kHz, +0dB, -3dB
-----------------------------------	----------------------------

Phono "RIAA" response

20 Hz ~ 20 kHz, $\pm 0.5$ dB
------------------------------

Signal-to-noise ratio (IHF '78) :

All inputs except for phono input	101 dB
Phono input (MM)	87 dB

Input Sensitivity/impedance

All inputs except for phono input	200 $\mu$ V/47 k-ohms
Phono input (MM)	2.5 $\mu$ V/47 k-ohms

Tone Control

BASS	$\pm 10$ dB (100 Hz)
Treble	$\pm 10$ dB (10 kHz)

Output level/impedance

Surround : All channels except for Subwoofer channel	1.0 volt/180 ohms (1 kHz, 0.003%)
Surround : Subwoofer channel	1.0 volt/180 ohms (31.5 Hz, 0.003%)

## Video section

Input level/impedance

All inputs except for S-video input : Composite	1.0 volt peak-to-peak/75
S-video : Luminance signal	1.0 volt peak-to-peak/75
S-video : Chrominance signal	0.286 volt peak-to peak/75

## Digital section

Sampling frequency

32 kHz, 44.1 KHz, 48 kHz
--------------------------

Input level/impedance

All inputs : Optical	-15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm
All inputs : Coaxial	0.5 volt peak-to-peak / 75

Output level/impedance

Output : Optical	-15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm
Output : Coaxial	0.5 volt peak-to-peak / 75

## FM tuner section

Tuning frequency range

87.5 ~108 MHz
---------------

Useable sensitivity(MONO)

1.2 $\mu$ V (75 ) / 13.2 dBf
(75 kHz deviation, S/N 30 dB)

50 dB quieting sensitivity (STEREO)

32 $\mu$ V (75 ) / 41.2 dBf
(75 kHz deviation)

Total harmonic distortion (1 kHz)

MONO	0.6% (65.2 dBf input)
STEREO	0.7% (65.2 dBf input)

# SPECIFICATIONS

Selectivity ( $\pm 400$ kHz)	50 dB
Stereo Separation (1 kHz)	40 dB
Frequency response	30 Hz ~ 15 kHz, $\pm 0.5$ dB, -3.0 dB

## AM tuner section

Tuning frequency range	530 Hz ~ 1700 kHz
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Useable sensitivity (30% modulation, S/N 20 dB)

16  $\mu$ V / (500  $\mu$ V/m)

Total harmonic distortion	0.7%
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signal-to-noise ratio (30% modulation, 1 mV input)	45 dB
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Selectivity	30 dB
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## General

Power consumption	90 W
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AC outlet (switched)	3 (total 200 W max.)
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Dimensions :

Width	17-5/16" (440 mm)
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Height	6-1/4" (159 mm)
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Depth	17-5/16" (440 mm)
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Weight (net)	26.9 lb (12.2 kg)
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KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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